TEXAS
WATER
DEVELOPMENT
BOARD

Report 195

GROUND WATER RESOURCES OF PART OF CENTRAL TEXAS WITH EMPHASIS ON THE ANTLERS AND TRAVIS PEAK FORMATIONS

VOLUME 2

RECORDS OF WELLS; DRILLERS' LOGS; WATER LEVELS IN WELLS; CHEMICAL ANALYSES OF GROUND WATER; CHEMICAL ANALYSES OF OIL-FIELD BRINES; AND WELL LOCATION MAPS

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Records of Wells; Drillers' Logs; Water Levels in Wells; Chemical Analyses of Ground Water; Chemical Analyses of Oil-Field Brines; and Well Location Maps

By

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TEXAS WATER DEVELOPMENT BOARD

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PREFACE

This report is prepared in two volumes. Volume 1 contains interpretive information presented as text and related figures and tables. Volume 2 contains basic data on the occurrence and availability of ground water including well location maps, records of wells, drillers' logs, water levels in wells, and chemical analyses of water. These data are supportive to the interpretive information contained in Volume 1. A full explanation of the well-numbering system used herein may be found in the first volume.

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Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane, or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
AX-40-46-901	W. I. Lee	Fulton T. Place	1963	1,600	5	1,600	Ktp	693	268.53	Dec. 6, 1966	Sub, E 5	S	Pump set at 420 ft.
* 51-801	Ed Huesa	Ralph Roberts	1943	910	--	--	Kgr, Khe	980	271 276	Jan. 9, 1943 Jan. 12, 1943	N	N	Pumping level 384 ft at 26 gpm on Jan. 9, 1943. Originally drilled as oil test. Abandoned and plugged. 1/
* 52-302	U.S. Army Corps of Engineers	--	1960	770	4	760	Khe	640	--	--	Sub, E	P	Screened from 760 to 770 ft. Pump set at 273 ft. Temp. 73°F.
* 903	do.	--	--	758	4	728	do.	640	140	Dec. 8, 1965	Sub, E	P	Completed from 728 to 758 ft.
* 53-102	do.	Ward and Ward Drilling Co.	1962	917	4 3	907 917	do.	665	180	Dec. 20, 1962	Sub, E 1 1/2	P	Slotted from 907 to 917 ft. Pumping level 342 ft at 10 gpm on Dec. 20, 1962. Pump set at 362 ft. Cemented from 907 ft to surface. Temp. 78°F. 1/ 2/
* 201	Temco Feed Co.	R. A. Adams and Son	1964	1,107	--	1,089	Kho	665	--	--	T, E	Ind	Open hole completion from 1,089 to 1,107 ft. Hensell test, bailing level 255 ft at 30 gpm in 1964. Hosston test, bailing level 210 ft at 30 gpm in 1964. Cemented from 1,089 ft to surface. Temp. 80°F. 1/
* 404	U.S. Army Corps of Engineers	--	--	815	4	815	Khe	620	--	--	Sub, E	P	Temp. 73°F.
* 504	do.	Ward and Ward Drilling Co.	1963	879	4 3	869 879	Khe	643	150	Jan. 10, 1963	Sub, E 1-1/2	P	Slotted from 869 to 879 ft. Pumping level 207 ft at 10 gpm on Jan. 10, 1963. Pump set at 230 ft. Cemented from 869 ft to surface. Temp. 78°F. 1/ 2/
* 505	Moffat Water Supply Corp.	C. M. Stoner Drilling Co.	1966	1,192	7 4	1,075 1,192	Kho	710	243.55 245.56	Jan. 16, 1967 Apr. 12, 1967	Sub, E	P	Slotted from 1,075 to 1,192 ft. Pumping level 283 ft at 120 gpm on Jan. 18, 1967. Cemented from 1,075 ft to surface. Texas Water Development Board observation well. 2/ 3/ 4/
* 703	U.S. Army Corps of Engineers	J. L. Myers Sons	1961	1,001	4	1,001	do.	625	128	Mar. 1961	Sub, E	P	Perforated from 959 to 1,001 ft. Cemented from 959 ft to surface. Temp. 71°F. 1/ 2/
* 704	J. G. Nash	do.	1957	1,081	5 4	451 1,081	do.	665	213.5 229.50	Oct. 21, 1965 Mar. 3, 1969	Sub, E	P	Perforated from 1,025 to 1,076 ft. Well was originally drilled to 875 ft by another driller; J. L. Myers Sons drilled to 1,081 ft. Temp. 80°F. Texas Water Development Board observation well. 1/ 4/
* 705	U.S. Army Corps of Engineers	do.	1961	1,001	4	1,001	do.	670	150	Mar. 1961	Sub, E	P	Perforated from 959 to 1,001 ft. Cemented from 959 ft to surface. 1/ 2/
* 706	do.	James Mathew Adams	1962	855	--	--	Khe	673	--	--	Sub, E	P	Temp. 76°F. 1/ 2/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* AX-40-53-901	Temple Municipal Airport	Wiegand Brothers Drilling Co.	1942	1,060	8 6	1,009 1,060	Khe	685	128	Oct. 8, 1942	T, E 7-1/2	P	Perforated from 1,014 to 1,032 ft. Perforated bull plug on bottom. Reported yield 250 gpm. Cemented from 1,010 ft to surface. 1/
* 902	do.	J. L. Myers Sons	1952	1,355	8 5 4	402 1,270 1,355	Kho	685	158 216.93	Feb. 6, 1952 Apr. 12, 1967	T, E 25	P	Perforated from 1,210 to 1,270 ft. Temp. 80°F. Texas Water Development Board observation well. 1/ 2/ 4/
* 54-401	Pendleton Water Supply Corp.	West-Tex Tool Service	1965	1,657	8	1,657	Ktp	790	--	--	Sub, E 10	P	Cemented from 1,657 ft to surface. 2/
* 501	City of Troy	A. N. Edwards	1925	1,735	10 5	1,735 260	do.	676	20 210.0	1934 June 5, 1967	T, S 15	P	Pumping level 225 ft at 170 gpm on Feb. 12, 1965. Pump set at 280 ft. Cemented. Texas Water Development Board observation well. 3/ 4/
* 502	Little Elm Water Supply Corp.	Watts Drilling Co.	1969	2,045	7 4	1,740 2,045	do.	750	273	Feb. 27, 1969	Sub, E 20	P	Slotted from 1,715 to 1,740 ft. Open hole from 1,740 to 1,880 ft. Slotted from 1,980 to 2,045 ft. Pumping level 285 ft. at 120 gpm on Feb. 27, 1969. Pump set at 462 ft. Reported yield 160 gpm. Cemented from 1,710 ft to surface. 1/ 2/
* 701	Peppers Creek Water Supply Corp.	C. M. Stoner Drilling Co.	1968	1,689	7	1,650	Kho	725	256.47	July 26, 1968	Sub, E 20	P	Slotted from 1,600 to 1,650 ft. Pumping level 319 ft at 200 gpm on July 24, 1968. Pump set at 400 ft. Cemented from 1,600 ft to surface. 1/ 2/
* 55-701	Gensville and Belfalls Water Supply Corp.	J. L. Myers Sons	1961	2,652	10 7	53 2,652	do.	602	78 104.54	Apr. 5, 1961 Mar. 20, 1969	T, E 7-1/2	P	Slotted from 2,519 to 2,631 ft. Pump set at 200 ft. Reported yield 100 gpm. Cemented from 2,519 ft to surface. Texas Water Development Board observation well. 1/ 2/ 4/
* 59-102	City of Killeen	A. N. Edwards	1925	772	12 8	-- 772	Kgr, Ktp	833	123 110.15	1941 June 8, 1967	N	N	Perforated from 245 to 256, 345 to 360, 548 to 644, and 708 to 715 ft. Pumping level 500 ft at 35 gpm on Sept. 27, 1941. Casing collapsed. Abandoned. 1/ 2/ 3/
* 301	Harvey Bacon, Jr.	Fowler Drilling Co.	1964	708	7	59	Kgr, Khe	860	265 292.4	Aug. 7, 1964 Mar. 3, 1969	Sub, E 1-1/2	D	Open hole completion from 59 to 708 ft. Pump set at 457 ft. Temp. 71°F. Texas Water Development Board observation well. 1/ 4/
* 701	Wineford Cosper	J. B. Farquharson	1963	640	5	32	do.	865	360 220.3	July 1963 Mar. 3, 1969	Sub, E 1-1/2	D	Open hole completion from 32 to 640 ft. Pumping level 360 ft at 10 gpm in July 1963. Pump set at 280 ft. Temp. 73°F. Texas Water Development Board observation well. 1/ 4/
* 60-302	U.S. Army Corps of Engineers	J. L. Myers Sons	1961	956	4	956	Kho	630	125	Jan. 1961	--	P	Perforated from 912 to 956 ft. Cemented from 912 ft to surface. Temp. 71°F. 1/ 2/
* 501	Dog Ridge Water Supply Corp.	do.	1966	979	10 7	18 1,145	Khe	810	309	Mar. 1966	Sub, E 20	P	Gun perforated with 14 shots 875 to 884 and 25 shots 888 to 906 ft. Pumping level 383 ft at 100 gpm on Mar. 16, 1966. Pump set at 500 ft. Cemented from 1,145 ft to surface. Well drilled to 1,152 ft and plugged back to 979 ft. 1/ 2/
* 601	U.S. Army Corps of Engineers	Layne Texas Co.	1941	965	13 10	710 965	Ktp	630	84	Oct. 3, 1942	N	N	Perforated from 817 to 965 ft. Pumping level 260 ft at 213 gpm on Oct. 3, 1942. Plugged and abandoned. 1/
701	T. E. Sanderford	J. L. Myers Sons	1952	825	10 6 5	9 450 825	Kho	600	145	Feb. 13, 1952	N	N	Perforated from 788 to 825 ft. Cemented from 825 ft to surface. Abandoned. 1/ 2/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* AX-40-60-801	U.S. Army Corps of Engineers	Wiegand Brothers Drilling Co.	1941	948	13 10	672 948	Khe, Kho	562	+ 50 + 17 + 39 + 51	1941 Oct. 1942 do. Sept. 1946	N	N	Perforated from 665 to 774 and 836 to 924 ft. Pumping level 122 ft at 390 gpm on Oct. 20, 1942. Cemented from 670 ft to surface. Temp. 81°F. Abandoned. 1/ 3/
* 901	do.	do.	1941	999	13 10	721 999	do.	534	+ 15 + 35 + 50	Sept. 1941 do. Sept. 1946	N	N	Perforated from 721 to 793 and 882 to 976 ft. Pumping level 76 ft at 500 gpm on Oct. 9, 1942. Cemented from 721 ft to surface. Temp. 81°F. Abandoned. 1/
* 902	do.	do.	1941	965	13 10	716 965	do.	532	+ 15 + 35 + 50	Sept. 15, 1941 1941 Sept. 1946	N	N	Perforated from 716 to 786 and 847 to 934 ft. Pumping level 131 ft at 350 gpm on Oct. 28, 1942. Cemented from 718 ft to surface. Temp. 81°F. Abandoned. 1/
* 903	do.	do.	1941	932	13 10	682 932	do.	548	+ 60 + 25	Oct. 25, 1942 Sept. 1946	N	N	Perforated from 665 to 731 and 817 to 906 ft. Pumping level 110 ft at 420 gpm on Oct. 3, 1942. Cemented from 684 ft to surface. Temp. 81°F. Abandoned. 1/
* 904	do.	do.	1941	968	13 10	753 968	do.	574	+ 44 75.5 73.68 73.96	Sept. 15, 1941 Dec. 8, 1965 Jan. 20, 1966 Mar. 7, 1966	N	N	Perforated from 743 to 831 and 883 to 965 ft. Pumping level 147 ft at 440 gpm on Oct. 13, 1942. Cemented from 755 ft to surface. Temp. 81°F. Abandoned. 1/ 3/
* 905	do.	do.	1941	956	13 10	681 956	do.	579	+ 47 + 30	Sept. 15, 1941 Sept. 1946	N	N	Perforated from 673 to 743 and 825 to 936 ft. Pumping level 200 ft at 520 gpm on Oct. 3, 1942. Temp. 81°F. Plugged and abandoned. 1/ 3/
* 907	do.	Ward and Ward Drilling Co.	1966	1,110	7 4 3	78 1,087 1,110	Kho	702	221	Apr. 4, 1966	Sub, E 2	P	Slotted from 1,087 to 1,110 ft. Pumping level level 227 ft at 13 gpm on Apr. 11, 1966. Pump set at 252 ft. 1/ 3/
908	Boy Scouts of America	J. L. Myers Sons	1957	970	9 7	5 970	Khe	590	--	--	T, E	P	Perforated from 883 to 954 ft. 1/
* 61-101	U.S. Army Corps of Engineers	Texas Water Wells	1949	1,351	8 6	-- 1,108	Kho	665	130	Oct. 1949	T, E	P	Completed from 1,078 to 1,108 ft. Pump set at 250 ft. Temp. 76°F. 2/
* 105	do.	J. L. Myers Sons	1961	1,080	4	1,080	do.	645	182.20 191.20	Oct. 21, 1965 Mar. 3, 1969	Sub, E	P	Perforated from 1,034 to 1,080 ft. Cemented from 1,034 to surface. Temp. 72°F. Texas Water Development Board observation well. 1/ 2/ 4/
* 106	do.	--	--	988	4	942	Ktp	645	--	--	Sub, E	P	Temp. 72°F.
107	Bob James and Lee Curtis	J. L. Myers Sons	1960	1,093	7 5	15.5 1,093	Kho	685	135	Aug. 12, 1960	Sub, E 3	P	Perforated from 1,046 to 1,093 ft. Pumping level 175 ft. Pump set at 357 ft. Cemented from 1,046 ft to surface. 1/
* 301	Dr. P. M. Bassel	J. L. Myers Sons	1952	1,487	6 4	500 1,487	Ktp	630	--	--	T, G	D, S	Temp. 80°F. 1/
* 401	City of Belton	do.	1948	1,190	16 10 8 6	29 390 1,021 1,190	Kho	519	--	--	T, E 40	P	Perforated from 1,021 to 1,169 ft. Reported yield 1,000 gpm. Cemented from 390 ft to surface. 1/ 2/
* 402	do.	D. C. Hammell	1915	1,190	12 8	800 1,190	Ktp	520	34 26 40	Nov. 4, 1942 Dec. 15, 1942 1960	A, E 75	P	Pumping level 90 ft at 350 gpm on Dec. 15, 1942. Reported yield 650 gpm in 1960. Former Texas Water Development Board observation well.
* 403	do.	--	--	1,172	12 8	800 1,172	do.	519	26 142	Apr. 11, 1942 Sept. 1964	N	N	Reported yield 320 gpm in 1942. Well was originally drilled in 1903 and later reworked to 1,172 ft. Abandoned. 1/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	AX-40-61-404	City of Belton	--	--	890	--	--	Khe	519	75.15 83.23	Dec. 8, 1965 May 4, 1967	N	N	Texas Water Development Board observation well. Abandoned. 1/ 4/
	405	do.	--	1900	1,180	6	--	Ktp	515	73.80 84.11	Oct. 14, 1965 Mar. 20, 1969	N	N	Texas Water Development Board observation well. Abandoned. 4/
*	501	do.	J. L. Myers Sons	1959	1,262	13 8	708 1,262	Kho	565	--	--	T, E 75	P	Slotted from 1,136 to 1,242 ft. Pump set at 406 ft. Reported yield 600 gpm. Cemented from 708 ft to surface. 1/ 2/
	502	Taylor Bedding Manufacturing Co.	Layne Texas Co.	1948	1,261	10 8	418.7 1,261	Ktp	525	--	--	T, E 15	Ind	Slotted from 972 to 1,012, 1,041 to 1,062, 1,162 to 1,183, and 1,201 to 1,241 ft. Pumping level 112 ft at 555 gpm on Oct. 8, 1948. Pump set at 390 ft. 1/ 2/
*	503	Brazos River Electric Co-op.	J. L. Myers Sons	1948	1,365	16 10 8	29 497 1,140	Kho	495	--	--	T, E 75	Ind	Screened from 1,140 to 1,237 ft. Pump set at 200 ft. Reported yield 100 gpm. Cemented from 1,140 ft to surface. 1/ 2/
*	504	do.	do.	1949	1,256	16 10 8	31 495 1,137	do.	495	--	--	T, E 75	Ind	Screened from 1,137 to 1,233 ft. Pump set at 200 ft. Cemented from 1,137 ft to surface. 1/ 2/
	507	City of Temple	Layne Texas Co.	1951	1,238	14 10	1,140 1,238	do.	504	31 56.34	Sept. 8, 1951 Oct. 13, 1965	T, E 200	P	Screened from 1,144 to 1,228 ft. Pumping level 230 ft at 508 gpm on Sept. 8, 1951. Pump set at 410 ft. Cemented from 1,140 ft to surface. 1/ 2/
*	508	do.	J. L. Myers Sons	1951	1,281	18 13 10	32 1,196 1,281	do.	519	--	--	--	P	Screened from 1,196 to 1,281 ft. Cemented from 1,196 ft to surface. 1/ 2/
*	509	do.	Layne Texas Co.	1951	1,261	14 10	1,155 1,261	Kho	518	31 65.78	Mar. 21, 1952 Mar. 20, 1969	T, E 200	P	Screened from 1,160 to 1,260 ft. Pumping level 362 ft at 798 gpm on Nov. 14, 1951. Cemented from 1,155 ft to surface. Texas Water Development Board observation well. 1/ 2/ 4/
*	510	Belton Sand and Gravel Co.	J. L. Myers Sons	1952	1,388	12 8	400 1,388	do.	485	--	--	T, E 75	Ind	Completed from 1,288 to 1,388 ft. Pump set at 300 ft. Reported yield 1,000 gpm. Cemented. Temp. 80°F. 1/
	601	Dan Steakley	do.	1955	1,685	12 8 7	4 700 1,685	do.	600	100	Apr. 15, 1955	T, E 10	D	Perforated from 1,605 to 1,284 ft. Pumping level 210 ft at 250 gpm. Cemented from 1,685 ft to surface. 1/ 2/
	703	City of Belton	do.	1952	1,293	16 13 10	650 1,204 1,284	do.	605	120 167.72	July 28, 1952 Mar. 20, 1969	Sub, E 150	P	Screened from 1,204 to 1,284 ft. Pumping level 430 ft at 650 gpm in 1952. Pump set at 575 ft. Reported yield 900 gpm. Cemented fro 1,204 ft to surface. Texas Water Development Board observation well. 2/ 4/
*	901	Taylors Valley Water Supply Corp.	West-Tex Tool Service	1964	1,850	7	1,821	do.	610	128 138.17	Aug. 1964 Mar. 17, 1969	Sub, E 7-1/2	P	Slotted from 1,760 to 1,821 ft. Pumping level 175 ft at 75 gpm in Aug. 1964. Pump set at 359 ft. Cemented. Texas Water Development Board observation well. 1/ 2/ 4/
*	62-101	City of Temple	J. L. Myers Sons	1951	2,136	18 13 8 6	10 995 1,846 2,136	do.	754	70 278.01	Oct. 23, 1951 Mar. 17, 1969	T, E	P	Screened from 1,911 to 2,136 ft. Reported yield 1,000 gpm. Cemented from 1,846 ft to surface. Texas Water Development Board observation well. 1/ 2/ 4/
*	102	Ralph Wilson Plastics Co.	Texas Water Wells	1965	1,822	10 8 6	1,000 1,677 1,819	do.	690	190.57	Dec. 8, 1965	T, E 75	Ind	Screened from 1,698 to 1,717 and 1,722 to 1,808 ft. Pumping level 327 ft at 510 gpm in Nov. 1965. Reported yield 500 gpm. 2/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
*	AX-40-62-4D1	Veterans Administration Hospital	J. L. Myers Sons	1944	2,323	20 14	-- 2,323	Kho	675	73 72	May 30, 1944 June 24, 1944	T, E	P	Completed from 2,234 to 2,323 ft. Pumping level 105 ft at 500 gpm on May 30, 1944. 1/ 2/
*	501	Acres Water Supply Corp.	Triangle Pump and Supply Corp.	1966	2,236	8 6	1,000 2,236	do.	625	134.13	Sept. 27, 1966	Sub, E 7-1/2	P	Gun perforated with 15 shots 2,118 to 2,125, 85 shots 2,130 to 2,172, 22 shots 2,182 to 2,189, 34 shots 2,195 to 2,206 ft. Pumping level 182 ft at 100 gpm on Sept. 7, 1966. Pump set at 300 ft. Cemented from 2,236 ft to surface. 2/
*	801	Bell County WCID No. 1	J. L. Myers Sons	1960	2,366	12 8 6	63 2,203 2,366	do.	505	+ 23.97	June 1960 Mar. 20, 1969	T, E 3	P	Slotted from 2,213 to 2,361 ft. Reported flowed 100 gpm in 1960. Cemented from 2,203 ft to surface. Temp. 95°F. Texas Water Development Board observation well. 1/ 2/ 4/
*	63-501	East Bell Water Supply Corp.	West-Tex Tool Service	1965	3,200	10 7 5	-- 800 3,170	do.	485	+ 13.5 + 11.24	Oct. 15, 1965 Mar. 18, 1969	Sub, E Flows	P	Completed from 3,099 to 3,119, 3,126 to 3,134, and 3,150 to 3,170 ft. Estimated yield 61 gpm. Texas Water Development Board observation well. 2/ 4/
	58-02-101	Albert Bond	Harrison Well Service	1959	423	--	--	Ktp	750	18	1959	J, E	D, S	
	301	-- Bissett	Layne Texas Co.	1941	628	--	--	do.	711	--	--	N	N	Plugged and abandoned. 1/
	03-301	Alfred Faut	Warren Lawson Well Drilling	1960	620	8	20	Kgr, Khe	750	153.0	Dec. 9, 1965	C, E 1/2	S	Open hole completion from 20 to 620 ft. Pump set at 160 ft. Reported yield 5 gpm.
	302	Bill Faut	do.	1965	596	8	60	do.	705	--	--	N	S	Open hole completion from 60 to 596 ft.
*	401	P. P. Matlock	--	--	450	--	--	do.	675	44.65 48.10	Mar. 14, 1966 Apr. 17, 1967	N	N	
*	901	Solana Ranch	Hunt and Morgan	1951	857	4	705	Ktp	780	90 155.90	June 1951 Mar. 17, 1969	Sub, E 3	D, S	Open hole completion from 705 to 857 ft. Pump set at 200 ft. Temp. 75°F. Texas Water Development Board observation well. 2/ 4/
*	04-103	Bill Faut	Warren Lawson Well Drilling	1960	767	7	272	Kgr, Khe	805	60	1960	Sub, E	D, S	Open hole completion from 272 to 767 ft. Reported yield 8 gpm. Water is filtered. Temp. 87°F.
	601	-- Pirdle	--	1955	2,300	--	--	Ktp	680	54 59.63	Mar. 31, 1961 Mar. 17, 1969	C, W	S	Texas Water Development Board observation well. 4/
*	602	Salado Water Supply Corp.	Hervey Meadows and Son Well Driller	1968	185	10	185	Kea	590	35	Feb. 20, 1968	--	P	Perforated. Reported yield 130 gpm. Cemented from 42 ft to surface. 1/
	603	do.	do.	1968	160	7	160	do.	617	45	Mar. 13, 1968	--	P	Perforated. 1/
	801	-- Killingsworth	--	1956	175	6	--	do.	760	134.93 136.84	Mar. 11, 1966 Mar. 17, 1969	C, W	S	Texas Water Development Board observation well. 4/
	802	Texas Highway Department	Hervey Meadows and Son Well Driller	1967	180	10 6	105 180	do.	726	--	--	Sub, E	P	Screened from 105 to 180 ft. Pumping level 100 ft at 50 gpm in May 1967. 1/
	803	do.	do.	1967	180	10 6	106 180	do.	738	--	--	Sub, E	P	Pumping level 135 ft at 50 gpm in May 1967. 1/
	05-202	Armstrong Water Supply Corp.	Watts Drilling Co.	1968	1,740	7	1,740	Kho	545	52.30	Jan. 7, 1969	Sub, E 10	P	Slotted from 1,706 to 1,732 ft. Pumping level 127 ft at 225 gpm on Aug. 24, 1968. Pump set at 210 ft. Reported yield 210 gpm. 1/ 2/
*	402	Ellis Holland	Trim and Son Contractors	1937	1,827	10 6	525 1,747	do.	683	54 61 62 91	1945 June 7, 1951 June 7, 1952 Dec. 10, 1954	C, E	D, S	Open hole completion from 1,747 to 1,827 ft. Well originally drilled as oil test. 1/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* AX-58-05-403	Leon River Farms	Hervey Meadows and Son Well Driller	1965	1,630	4	1,630	Khe	675	114.25 123.80	Mar. 15, 1966 Mar. 17, 1969	Sub, E 2	S	Slotted from 1,590 to 1,630 ft. Pump set at 240 ft. Estimated yield 15 gpm. Cemented from 1,590 ft to surface. Temp. 84°F. Texas Water Development Board observation well. 1/ 4/
* 901	City of Holland	K. E. Edwards	1928	1,993	8 6	1,199 --	do.	530	Flowed	Aug. 8, 1943	T, E 7-1/2	P	Pumping level 151 ft at 83 gpm on Aug. 8, 1943. 1/
* 902	do.	Texas Water Wells	1955	2,420	10 7	700 2,420	Kho	538	33.24 44.20	Mar. 16, 1966 Mar. 17, 1969	T, E	P	Slotted from 2,190 to 2,208, 2,214 to 2,230, 2,240 to 2,270, 2,291 to 2,310, and 2,320 to 2,414 ft. Pump set at 300 ft. Estimated yield 135 gpm. Texas Water Development Board observation well. 2/ 4/
* 06-102	Bell County WCID No. 2	do.	1955	2,210	8 6	-- 2,020	do.	493	+ 52 2.16	1955 Mar. 17, 1969	T, E 15	P	Screened from 2,020 to 2,210 ft. Reported flowed 103 gpm in 1964. Reported yield 125 gpm in 1961. Texas Water Development Board observation well. 2/ 4/
* D7-301	T. D. Meacham	--	1957	3,584	16 8 7	400 2,846 3,584	do.	450	+ 90 + 77.3	Nov. 9, 1960 Apr. 17, 1967	Flows	Trr	Screened from 2,876 to 2,928, 2,962 to 2,987, 3,019 to 3,063, 3,093 to 3,134, 3,172 to 3,335, and 3,375 to 3,486 ft. Texas Water Development Board observation well. 2/ 4/
* 701	City of Rogers	Layne Texas Co.	1940	3,178	10 7 5	452 2,850 3,178	do.	493	+	Oct. 14, 1965	Flows	P	Perforated from 2,852 to 3,178 ft. Reported flowed 800 gpm in 1940 and 180 gpm in 1965. 1/

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I.
4/ For water-level measurements, see Table 4.

BELL COUNTY

Table 2.–Selected Oil, Gas, and Stratigraphic Tests.

Type Log: D, Drillers'; E, Electric; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
AX-40-45-903	A. B. Johnson	Howard No. 1	1951	2,262	740	E
51-801	—	Ed Huess No. 1	1943	910	980	D
59-801	Gilchist Drilling Co., et al.	Curb Fee No. 1	1949	2,022	825	E
901	Shell Oil Co.	Massie No. 1	1955	1,714	608	E
63-801	Pryor Dillard	Simek No. 1	1951	1,114	443	E
58-02-102	F. A. Dunham	Hunt No. 1	1954	3,960	765	S
07-401	Hobsco, Inc.	N. P. Moeller No. 1	1941	2,004	485	E
14-401	M. A. Romero and T. M. Murchinson	Dallas Skinner No. 1	1958	1,210	535	E
802	do.	Robert Bunker No. 1	1958	1,225	520	E

Table 3.—Drillers' Logs of Selected Wells

Well AX-40-51-801

Owner: Ed Huess
Driller: Ralph Roberts

	THICKNESS (FEET)	DEPTH (FEET)
Yellow clay	18	18
Hard rock and yellow clay	10	28
Hard white lime	37	65
Slate	65	130
Blue shale	45	175
Lime	6	181
Blue shale	29	210
Lime, shells and slate	40	250
Blue slate	40	290
Gray slate	30	320
Gray slate	30	350
Shale	5	355
Water sand, little water	5	360
Shale	10	370
Lime	15	385
Shale	15	400
Lime, shale	25	425
Sand, lime, shale	25	450
Sandy lime	50	500
Lime, shale	20	520
Sandy lime, shale	15	535
Shale	55	590
Sandy shale	55	645
Blue shale	15	660
Sandy shale	25	685
Brown sand	20	705
Blue shale	25	730
Lime	38	768
Blue shale	6	774
Sand, water	3	777
Gravel	1	778

Well AX-40-51-801—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Lime and sand	14	792
Lime	18	810
Blue shale	5	815
Red beds	6	821
Lime	10	831
Blue shale	11	842
Blue shale	28	870
Brown shale	10	880
Blue shale	10	890
Red beds	10	900
Sand and slate	10	910

Well AX-40-53-102

Owner: U.S. Army Corps of Engineers
Driller: Ward and Ward Drilling Co.

Surface	4	4
White lime	28	32
Blue lime	148	180
Blue shale	60	240
Blue lime	442	682
Soft lime	203	885
Sand, Trinity	32	917

Well AX-40-53-201

Owner: Temco Feed Co.
Driller: R. A. Adams and Son

Soil and chunk rock	4	4
Chalk	8	12
Blue lime	39	51
Shale	4	55
White lime	35	90
Dark gray lime	85	175
Shale	12	187
Dark gray lime	14	201

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-53-201—Continued		
Shale	5	206
Lime and shale	18	224
Shale	4	228
Shale and lime	6	234
Dark gray lime	16	250
Shale	5	255
Dark gray lime	45	300
Lime and shale	19	319
Shale	3	322
Dark gray lime	38	360
White lime, little water - 1 gpm	42	402
Dark gray lime (little water - good drilling)	20	422
White lime	13	435
Dark gray lime	47	482
Glen Rose lime	157	639
Shale	3	642
Glen Rose lime	84	726
Dark gray lime	34	760
Glen Rose lime	12	772
Shale	5	777
White lime	6	783
Dark gray sticky lime	34	817
Blue shale	11	828
Lime	57	885
Sandy lime	12	897
Blue shale	7	904
Sand and water	51	955
Blue sandy shale	26	981
Green sandy shale	7	988
Lime	7	995
Green shale	9	1,004
Blue shale	18	1,022
Red shale	3	1,025
Blue sandy shale	22	1,047
Red, green and blue shale	9	1,056
Red shale	2	1,058
Red beds	22	1,080
Red and green shale	7	1,087
Sand and water	20	1,107
Well AX-40-53-504		
Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.		
White lime	5	5
Cave	1	6
White lime	21	27
Blue lime	101	128
Blue shale with lime streaks	162	290
Soft lime	572	862
Sand, Trinity	17	879
Well AX-40-53-703		
Owner: U.S. Army Corps of Engineers Driller: J. L. Myers Sons		
Surface	1	1
Lime	59	60
Shale	67	127
Lime	64	191
Lime and shale	277	468
Lime	139	607
Lime and shale	43	650
Sandy lime	22	672
Lime	98	770
Shale	8	778
Sand	33	811
Lime and shale	146	957
Sand	44	1,001

Table 3.--Drillers' Logs of Selected Wells in Bell County--Continued

Well AX-40-53-704

Owner: J. G. Nash
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
No record	871	871
Lime and shale	147	1,018
Lime	3	1,021
Sand	37	1,058
Rock	4	1,062
Sand	10	1,072
Rock	9	1,081

Well AX-40-53-705

Owner: U.S. Army Corps of Engineers
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Lime	74	74
Lime and shale	394	468
Lime	228	696
Lime and shale	92	788
Sandy lime	35	823
Lime and shale	110	933
Sand and shale	24	957
Sand	38	995
Sandy shale	6	1,001

Well AX-40-53-706

Owner: U.S. Army Corps of Engineers
Driller: James Mathew Adams

	THICKNESS (FEET)	DEPTH (FEET)
Soil	1	1
Lime	27	28
Lime, hard	22	50
Lime	51	101
Blue clay	12	113
Blue lime	23	136
Blue lime and clay	54	190
Gray-white lime	40	230
Blue gray lime	25	255
White lime	315	570

Well AX-40-53-706--Continued

	THICKNESS (FEET)	DEPTH (FEET)
Shale, breaks	60	630
White lime	75	705
Gray lime	80	785
Shaly lime	19	804
Sandy lime	11	815
Hard and soft sand	40	855

Well AX-40-53-901

Owner: Temple Municipal Airport
Driller: Wiegand Brothers Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Rotary space	2	2
Hard lime	8	10
Gray shale	40	50
White lime	12	62
Broken lime	33	95
Lime	110	205
Shale	7	212
Lime	8	220
White lime	30	250
Sticky shale	20	270
Lime	10	280
Gray shale	15	295
Lime	35	330
Gray shale	15	345
Sandy lime	25	370
Sandy lime, shale	50	420
Hard white lime	25	445
White lime	41	486
Sandy lime	24	510
White lime	10	520
Gray shale	15	535
Broken lime	230	765
White lime	25	790
Broken lime	50	840
White lime	25	865

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

Well AX-40-53-901—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Broken lime	13	878
Hard lime	77	955
Lime	30	985
Blue shale	10	995
Lime	4	999
White sand	5	1,004
Hard gray lime	6	1,010
Lime	2	1,012
Green shale	2	1,014
White sand	18	1,032
Sticky shale	20	1,052
Lime	8	1,060

Well AX-40-53-902

Owner: Temple Municipal Airport
Driller: J. L. Myers Sons

Surface soil	3	3
Lime	417	420
Broken lime	128	548
Broken lime and shale	190	738
Broken lime	139	877
Lime	80	957
Broken lime	53	1,010
Sand	28	1,038
Sandy lime	15	1,053
Broken lime	66	1,119
Travis Peak Sand	149	1,268
Lime	8	1,276
Shale and lime	16	1,292
Lime	63	1,355

Well AX-40-54-502

Owner: Little Elm Water Supply Corp.
Driller: Watts Drilling Co.

Topsoil	8	8
Caliche	9	17

Well AX-40-54-502—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Lime broken with shale	323	340
White chalk	112	452
Black shale	118	570
White lime	110	680
Iron pyrite	30	710
Lime and blue shale	395	1,105
Broken lime	355	1,460
Lime and sand	340	1,800
Sand and shale	70	1,870
Sand and gravel	175	2,045

Well AX-40-54-701

Owner: Peppers Creek Water Supply Corp.
Driller: C. M. Stoner Drilling Co.

Soil	6	6
Austin Chalk	64	70
Eagle Ford Shale	225	295
Lime	90	385
Lime and sand	95	480
Lime	830	1,310
Sand	60	1,370
Sandy shale and lime	155	1,525
Sand	65	1,590
Shale	10	1,600
Sand	50	1,650
Yellow shale	19	1,669

Well AX-40-55-701

Owner: Oenaville and Belfalls Water Supply Corp.
Driller: J. L. Myers Sons

Surface soil	4	4
Clay	48	52
Shale	278	330
Chalk rock	467	797
Shale	205	1,002
Broken lime	58	1,060

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-55-701—Continued		
Lime	578	1,638
Shale and lime	145	1,783
Broken lime	93	1,876
Lime	87	1,963
Broken lime	202	2,165
Sand	55	2,220
Broken lime	18	2,238
Shale and lime	69	2,307
Broken lime	120	2,427
Sandy lime	26	2,453
Broken sand	107	2,560
Sand and gravel	53	2,613
Sand and shale	39	2,652
Well AX-40-59-102		
Owner: City of Killeen Driller: A. N. Edwards		
Clay and gravel	14	14
Shale and gumbo	14	28
Black rock and shale	14	42
Light gray lime	33	75
White lime	10	85
Light gray lime and some crystal	15	100
White lime	17	117
Light gray lime	128	245
Lime and some sand, first water, 1 bailer	11	256
Light gray lime	89	345
Lime and water sand, second water	7	352
Mixture lime and sand	8	360
Hard gray lime	67	427
Blue and gray lime mixture	20	447
Gray lime	83	530
Hard white lime	8	538

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-59-102—Continued		
White gray lime	10	548
Water-bearing sand	20	568
Blue gumbo and some sand	76	644
Red bed	31	675
Lime and shale	13	688
Gray lime	10	698
Gray lime and mixture of red bed	10	708
Coarse gravel, some sand, all colors	7	715
Mixture chocolate and red shales	15	730
Chocolate and yellow shale	20	750
Hard blue lime with gray streaks	22	772
Well AX-40-59-301		
Owner: Harvey Bacon, Jr. Driller: Fowler Drilling Co.		
Gray limestone	676	676
Water sand	32	708
Well AX-40-59-701		
Owner: Wineford Cosper Driller: J. B. Farquharson		
Yellow clay	20	20
Sandy lime	12	32
Austin Chalk	38	70
Austin Chalk with bentonite streaks	310	380
Sand	7	387
Austin Chalk with bentonite streaks	193	580
Sand	21	601
White lime	5	606
Sand	17	623
Austin Chalk with lime streaks	7	630
Yellow shale	10	640

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

Well AX-40-60-302

Owner: U.S. Army Corps of Engineers
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Open hole no record	433	433
Lime and shale	145	578
Lime	133	711
Sandy lime	9	720
Sand	18	738
Sandy lime	64	802
Lime	26	828
Lime and shale	38	866
Shale	23	889
Sand	12	901
Sandy shale	12	913
Sand	43	956

Well AX-40-60-501

Owner: Dog Ridge Water Supply Corp.
Driller: J. L. Myers Sons

Lime	206	206
Lime with streaks of shale	664	870
Shale	10	880
Sand with streaks of shale	272	1,152

Well AX-40-60-601

Owner: U.S. Army Corps of Engineers
Driller: Layne Texas Co.

Surface soil	19	19
Lime and shale with hard streaks	62	81
Shale with lime streaks	19	100
Shale with lime shells and streaks of gravel	30	130
Lime with shale streaks	37	167
Lime with shale streaks	36	203
Lime and shale	30	233
Lime with shale streaks	69	302

Well AX-40-60-601—Continued

Hard lime	38	340
Lime with shale streaks	60	400
Lime with shale streaks	46	446
Lime with shale streaks	30	476
Lime with shale streaks	29	505
Sandy shale and lime shells	25	530
Lime with sticky shale	43	573
Sandy shale	76	649
Sandy shale	2	651
Lime	27	678
Sandy shale with sand streaks	10	688
Sand and shale	2	690
Sand and shale (core)	20	710
Lime	4	714
Sand (water)	33	747
Rock	3	750
Streaks of sand shale and lime	12	762
Shale with lime shells	34	796
Sandy shale with lime streaks	65	861
Lime and shale	33	894
Lime and shale	12	906
Sand	14	920
Sand and shale	10	930
Sand	7	937
Hard	1	938
No record	10	948
Core	17	965

Well AX-40-60-701

Owner: T. E. Sanderford
Driller: J. L. Myers Sons

Surface soil	3	3
Rock	90	93

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-60-701—Continued		
Lime	114	207
Rock	312	519
Lime	29	548
Sandy lime	38	586
Sand	37	623
Sandy lime	8	631
Shale and lime	75	706
Sandy lime	29	735
White shale	35	770
Red bed	17	787
Sand	38	825
Well AX-40-60-801		
Owner: U.S. Army Corps of Engineers Driller: Wiegand Brothers Drilling Co.		
Surface clay	22	22
Gravel	5	27
Lime rock and gravel	14	41
Lime rock and clay	24	65
Lime and blue shale	25	90
Lime rock and shale	135	225
Shaly lime	94	319
Shaly lime	226	545
Lime shale streaks	22	567
Lime, sandy shale	97	664
Sand and sandstone	30	694
Limestone and shale	34	728
Hard lime and sandstone	27	755
Lime and streaks of shale	76	831
Cored: shale sand and lime	19	850
Hard lime	2	852
Lime, streaks of shale and sand	22	874
Lime streaks and shale	6	880
Sand (cored)	31	911

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-60-801—Continued		
Sand and shale	21	932
Shale and lime (red clay)	8	940
Red clay	8	948
Well AX-40-60-901		
Owner: U.S. Army Corps of Engineers Driller: Wiegand Brothers Drilling Co.		
Rotary space	5	5
Surface soil and clay	17	22
Gravel	3	25
Limestone	11	36
Gravel	2	38
Sand	4	42
Hard limy shale and rock	48	90
Lime with shale streaks	25	115
Sand and boulders	9	124
Gravel	3	127
Lime, hard sand	89	216
Lime, shale streaks	15	231
Rock	3	234
Lime, shale streaks	104	338
Lime, shale streaks	138	476
Lime and shale	27	503
Lime, shale streaks	77	580
Lime, sand streaks	20	600
Lime and shale	115	715
Shale with lignite	5	720
Shale and sand (core)	4	724
Soft sand	32	756
Lime and shale	74	830
Shale with lime shells	30	860
Soft shale	10	870
Shale and lime	19	889
Lime and shale	5	894

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-60-901—Continued		
Core: fully recovered	18	912
Red bed	18	930
Sand	36	966
Sand (cored)	16	982
Red shale (cored)	17	999
Well AX-40-60-902		
Owner: U.S. Army Corps of Engineers Driller: Wiegand Brothers Drilling Co.		
(Complete drillers' log not shown)		
Topsoil	15	15
River red sand	21	36
Lime and shale	13	49
Hard lime, shale and boulders	24	73
Lime, rock and shale	59	132
Hard shale, rock and lime	4	136
Lime and shale	80	216
Shale, lime, rock	80	296
Lime and shale	280	576
Shale - rock and streaks of lime	28	604
Shale, rock and lime	72	676
Shale, rock and lime, sandy shale	20	696
Cored: shale, sand rock, sandy shale and lime	8	704
Sand	5	709
Sandy shale	6	715
Rock	3	718
Cored: sand, thin layers of shale and lignite	19	737
Sandy shale and sand	8	745
Hard lime and thin layers of sand	47	792
Well AX-40-60-903		
Owner: U.S. Army Corps of Engineers Driller: Wiegand Brothers Drilling Co.		
Soil	4	4
Clay and gravel	41	45
Sand and gravel	61	106
Rock	3	109
Limestone	5	114
Sand gravel	40	154
Limestone	33	187
Lime, sand, gravel streaks	44	231
Lime	119	350
Shaly lime	40	390
Lime - broken gravel	61	451
Lime, rock	32	483
Lime, shale streaks	122	605
Limestone	15	620
Lime and shale	63	683
Hard sand and shale	43	726
Limestone	8	734
Sticky shale and lime shells	17	751
Cored	10	761
Sticky shale	14	775
Lime, shale streaks	87	862
Sand (cored)	25	887
Soft gray sand, loose	6	893
Firm sand (red)	2	895
Sandy red clay	9	904
Very course sand	8	912
Red clay (drilled)	7	919
Red clay (core)	4	923
Cored	9	932

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

Well AX-40-60-904

Owner: U.S. Army Corps of Engineers
Driller: Wiegand Brothers Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Rock and clay	28	28
Rocks and shale	12	40
Hard black shale rock	12	52
Hard black shale rock	133	185
Rock and shale breaks	20	205
Shale and rock breaks	20	225
Shale, rock, layers of lime	28	253
Shale and lime rock	40	293
Shale and lime	84	377
Blue shale, rock and lime	16	393
Shale and hard lime	20	413
Hard lime, blue shale	13	426
Hard shale and lime	7	433
Lime and shale	120	553
Lime, shale breaks and sand	22	575
Shale, lime rock	15	590
Sandy shale and lime	37	627
Blue shale	20	647
Rock and shale	35	682
Lime rock	6	688
Lime rock and shale	20	708
Sandy shale	12	720
Sandy rock, shale	13	733
Sand, cored 740 to 754	34	767
Shale	4	771
Cored 4 feet, sandy shale and sand	6	777
Hard shale	30	807
Sand, shale, lime	17	824
Shale, sand streaks	7	831
Sandy shale, fine sand	48	879
Cored, sand rock and shale, sandy shale	20	899
Hard shale	3	902
Red bed	4	906
Sand, shale breaks	38	944
Sand and shale	7	951
Sand (good)	12	963
Hard lime and shale	5	968

Well AX-40-60-905

Owner: U.S. Army Corps of Engineers
Driller: Wiegand Brothers Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Hard, limy shale	52	52
Limy shale with hard streaks	377	429
Shale and hard shells	55	484
Lime	41	525
Shale and shells	22	547
Shale and lime	143	690
Sand	23	713
Shale with streaks of hard lime	10	723
Sandstone	3	726
Sandy shale	20	746
Sticky shale with hard streaks	24	770
Sandy shale	50	820
Sand and shale	21	841
Sand	8	849
Limy shale and sand	5	854
Red clay	5	859
Sandy shale	22	881
Sand (soft)	24	905
Sand (hard)	14	919
Sand (soft)	15	934
Sand (hard)	5	939
Red bed	16	955
Hard sandstone	1	956

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

Well AX-40-60-907

Owner: U.S. Army Corps of Engineers
Driller: Ward and Ward Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Surface soil	5	5
Porous rock	63	68
Rock	74	142
Shale	93	235
Rock	48	283
Shale and lime rock	20	303
Rock	12	315
Shale and lime rock	35	350
Rock soft	120	470
Rock hard	270	740
Glen Rose sand	25	765
Shale	30	795
Rock	86	881
Trinity Sand	41	922
Shale	94	1,016
Sand	9	1,025
Shale	45	1,070
Sand	30	1,100
Shale	10	1,110

Well AX-40-60-908

Owner: Boy Scouts of America
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Rock	125	125
Lime	118	243
Lime	48	291
Rock	101	392
Lime	122	514
Lime	81	595
Lime	61	656
Lime	66	722
Sand	8	730
Lime	27	757

Well AX-40-60-908—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Lime	81	838
Lime	34	872
Lime	8	880
Sand	12	892
Rock	4	896
Sand	37	933
Shale with streaks of sand	6	939
Sandy shale	4	943
Sand	11	954
Lime	16	970

Well AX-40-61-105

Owner: U.S. Army Corps of Engineers
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Open hole no record	523	523
Lime	305	828
Lime and shale	31	859
Sand	7	866
Sandy lime	7	873
Lime and shale	152	1,025
Sand	55	1,080

Well AX-40-61-107

Owner: Bob James and Lee Curtis
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Surface soil	1	1
Rock	5	16
Lime	100	116
Lime - shale	66	182
Sand	13	195
Broken lime - caliche	498	693
Lime	139	832
Lime - shale	12	844
Sand - shale	46	890
Lime - shale	126	1,016

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-61-107—Continued		
Shale	14	1,030
Sand	59	1,089
Lime	4	1,093
Well AX-40-61-301		
Owner: Dr. P. M. Bassel Driller: J. L. Myers Sons		
Soil	5	5
Broken limestone and shale	85	90
White rock	22	112
Gerogetown Limestone	80	192
Goodwin Limestone	66	258
Hard limestone	94	352
Limestone	80	432
Broken limestone and shale	299	731
Broken limestone and sand	161	892
Sandy limestone and limestone	418	1,310
Sand	25	1,335
Sandy limestone	100	1,435
Sand	25	1,460
Hard sandrock	24	1,484
Limestone	3	1,487
Well AX-40-61-401		
Owner: City of Belton Driller: J. L. Myers Sons		
Surface soil	3	3
Gravel	4	7
Sand	8	15
Rock	11	16
Sand and gravel	9	25
Rock	45	70
Hard lime	74	144
Rock	156	300
Broken shale and lime	41	341
Broken shale and rock	50	391
Shale and lime	19	410
Hard lime	48	458
Lime	36	494
Hard lime	33	527
Lime	18	545
Lime and shale	43	588
Broken lime and chalk rock	59	647
Lime and shale	54	701
Broken lime and chalk	69	770
Lime	64	834
Lime	22	866
Sand	68	934
Broken shale and lime	11	945
Lime	19	964
Sandy lime	16	980
Shale	13	993
Lime and shale	22	1,015
Sand	150	1,165
Gravel and sand	4	1,169
No record	8	1,177
Sand	10	1,187
Shale	3	1,190
Well AX-40-61-403		
Owner: City of Belton Driller: Unknown		
Soil	22	22
Sand and lime	26	48
Lime chalk	44	92
Lime	23	115
Lime	20	135
Shale gray	45	180
Shale dark	15	195

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-61-403—Continued		
Lime	5	200
Lime shale broken	60	260
Gray shale and lime shells	35	295
Lime	35	330
Gray shale and lime	85	415
Lime chalk	117	532
Lime chalk	66	598
Lime shale broken	64	662
Lime	48	710
Lime shale broken	55	765
Shale blue	13	778
Lime	69	847
Trinity Sand no. 1	23	870
Sandy shale	5	875
Trinity Sand	12	887
Sand water	33	920
Shale dark	28	948
Sandy lime	17	965
Shale blue	2	967
Sand lime	8	975
Blue shale	109	1,084
Red shale	2	1,086
Trinity Sand no. 2	44	1,130
Sand	36	1,166
Sand and gravel	4	1,170
Shale blue	2	1,172
Well AX-40-61-404		
Owner: City of Belton Driller: Unknown		
Soft limestone	25	25
Blue marl or slate	300	325
Blue limestone	50	375
White putty or mud	15	390
White limestone (soft)	50	440
Sand rock with iron pyrites (hard)	10	450
Limestone (Glen Rose)	100	550
White mud (Glen Rose)	25	575
White limestone (Glen Rose)	250	825
White mud	25	850
Sandstone	40	890
Well AX-40-61-501		
Owner: City of Belton Driller: J. L. Myers Sons		
Surface soil	32	32
Rock	265	297
Broken shale	346	643
Broken lime	146	789
Lime	141	930
Sandy shale	210	1,140
Sand	78	1,218
Lime and shale	44	1,262
Well AX-40-61-502		
Owner: Taylor Bedding Manufacturing Co. Driller: Layne Texas Co.		
Topsoil and clay	21	21
Rock	15	36
Rock and layers of shale	54	90
Hard shale and lime	137	358
Shale and lime	123	481
Hard shale and lime	58	539
Hard shale and lime	378	917
Top Trinity Sand	72	989
Hard sand and shale and lime	36	1,025
Sandy layers of shale and sandy lime	59	1,084
Shale and lime	20	1,104
Sandy shale and shell	23	1,127

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-61-502—Continued		
Hard sand and shale breaks	19	1,146
Blue and pink shale	10	1,156
Coarse sand and fine gravel	56	1,212
Hard shale and lime	9	1,221
Sand	3	1,224
Hard rock and lime	2	1,226
No record	35	1,261
Well AX-40-61-503		
Owner: Brazos River Electric Co-op. Driller: J. L. Myers Sons		
Surface soil	5	5
Clay	12	17
Sand and gravel	10	27
Rock	103	130
Rock and shale	290	420
Lime and shale	94	514
Broken shale	76	590
Rock	52	642
Lime rock	56	698
No record	20	718
Lime and shale	231	949
Sand	10	959
Sand and shale	96	1,055
Lime	91	1,146
Sandy lime and shale	42	1,188
Broken lime	10	1,198
Broken sand	145	1,343
Rock	12	1,355
No record	10	1,365
Well AX-40-61-504		
Owner: Brazos River Electric Co-op. Driller: J. L. Myers Sons		
Surface soil	12	12
Gravel	12	24
Rock	187	211
Rock and shale	148	359
Rock	25	384
Broken shale and rock	57	441
Broken shale and lime	58	499
Broken shale and rock	70	569
Broken shale and lime	72	641
Lime	65	706
Broken shale and lime	45	751
Lime with shale streaks	83	834
Broken	67	901
Lime	32	933
Sandy lime	15	948
Sand	34	982
Broken sand and lime	32	1,014
Sandy lime and shale	77	1,091
Lime	47	1,138
Sandy	18	1,156
Sand	92	1,248
Rock	8	1,256
Well AX-40-61-507		
Owner: City of Temple Driller: Layne Texas Co.		
Soil, clay and lignite layers	31	31
Brown lime	70	101
Hard, gray lime	51	152
Gray lime and shale	33	185
Gray shale and lime	12	197
Blue shale	18	215
Blue shale and lime	12	227
Blue shale	21	248
Gray lime and blue shale layers	76	324

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-61-507—Continued		
Gray lime and shale	94	418
Gray shale and lime	505	923
Brown and blue candy shale	60	983
Gray lime and blue shale	52	1,035
Gray shale and lime	63	1,098
Gray and blue shale and lime	22	1,120
Gray and blue sandy shale	27	1,147
Sand with shale layers (good)	16	1,163
Hard shale - lime and candy shale	10	1,173
Hard, candy shale	16	1,189
Hard, coarse sand	27	1,216
Hard, coarse candy shale and gravel	13	1,229
Red, blue and yellow shale	6	1,235
Shale (hard)	3	1,238
Well AX-40-61-508		
Owner: City of Temple Driller: J. L. Myers Sons		
Clay	6	6
Clay and gravel	16	22
Lime	29	51
Lime and shale	69	120
Lime	511	631
Shale	341	972
Sand and shale	45	1,017
Lime	147	1,164
Sand	81	1,245
Hard, sandy lime	36	1,281
Well AX-40-61-509		
Owner: City of Temple Driller: Layne Texas Co.		
Rock and gravel	16	16
Hard, blue shale and rock	31	47
Hard, brown lime	105	152
Hard, gray lime and rock	16	168
Blue shale and lime	50	218
Blue shale	30	248
Gray lime and blue shale	71	319
Gray lime and shale	50	369
Blue shale	20	389
Hard, gray lime	44	433
Gray lime and blue shale	135	568
Hard, gray lime and shale	54	622
Gray lime	43	655
Gray lime and shale	47	712
Hard, gray lime and shale	39	751
Gray lime	22	773
Gray lime and shale	132	905
Gray lime	46	951
Sandy brown shale	47	998
Gray lime and blue shale	80	1,078
Hard, gray and blue shale and sandy shale layers	23	1,101
Hard, sandy shale and shale and lime	35	1,136
Hard shale and sandy shale	24	1,160
Coarse sand and shale	31	1,191
Coarse sand	21	1,212
Coarse sand and blue shale and gravel	17	1,229
Sand, shale, gravel, and lime	22	1,251
Hard lime and shale	10	1,261
Well AX-40-61-510		
Owner: Belton Sand and Gravel Co. Driller: J. L. Myers Sons		
Surface soil	4	4
Sand and gravel	12	16
Shale	59	75

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

Well AX-40-61-510—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Broken lime	91	166
Lime and shale	79	245
Lime	266	511
Broken lime	133	644
Lime	208	852
Broken lime and shale	125	977
Broken lime	74	1,051
Sandy shale	51	1,102
Lime	150	1,252
Broken lime	30	1,282
Sand	55	1,337
Sand rock	11	1,348
Sand	23	1,371
Shale	6	1,377
Sandy lime	11	1,388

Well AX-40-61-601

Owner: Dan Steakley
Driller: J. L. Myers Sons

No record	4	4
Lime	21	25
Rock	20	45
Shell rock	90	135
Shale	216	351
Rock	99	450
Sand and shale	80	530
Rock	22	552
Hard lime	23	575
Lime and shale	175	750
Lime	460	1,210
Shale	28	1,238

Well AX-40-61-601—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Broken lime	142	1,380
Sandy lime	55	1,435
Sandy shale and lime	115	1,550
Broken lime	15	1,565
Sand	110	1,675
Rock	10	1,685

Well AX-40-61-901

Owner: Taylors Valley Water Supply Corp.
Driller: West-Tex Tool Service

Shale	310	310
Shaly lime	210	520
Lime and shale	115	635
Shale and sand	145	780
Lime and shale	330	1,110
Limy shale	375	1,485
Sandy shale	115	1,600
Sand	250	1,850

Well AX-40-62-101

Owner: City of Temple
Driller: J. L. Myers Sons

Surface soil	5	5
Clay and gravel	5	10
Rock	345	355
Rock and shale	197	552
Rock	1,000	1,552
Lime	343	1,895
Broken sandy lime	71	1,966
Sand	31	1,997
Sandy lime	44	2,041
Lime	95	2,136

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401		
Owner: Veterans Administration Hospital Driller: J. L. Myers Sons (Complete log not shown; all descriptions are from cuttings unless indicated otherwise. Description of samples by Helen Jeanne Plummer.)		
Austin Formation		
Soft, white, weathered chalk in small particles; *Inoceramus* prisms, few ostracode, rare forams.	10	10
Soft, white, and yellowish chalk in small fragments; *Inoceramus* prisms, few microfossils. Subsurface layers probably thinly stratified or laminated, since material broke up into thin small fragments.	10	20
Unweathered, pale bluish-gray chalk in fine fragments. Subsurface layers probably thinly laminated. Few ostracodes and forams.	10	30
Pale bluish-gray, finely laminated chalk in small uniform fragments. *Inoceramus* prisms, few ostracodes, few forams.	10	40
Pale bluish-gray, finely laminated chalk that broke up into uniformly fine fragments in drilling. Forams numerous; few ostracodes, echinoid spines.	10	50
Pale bluish-gray and little yellowish chalk in uniformly fine fragments indicating probable thinly laminated layers of chalk in subsurface. Numerous forams and few ostracodes.	10	60
Pale bluish-gray, finely broken chalk that points to thinly laminated strata in subsurface. Few microfossils.	10	70
Very pale bluish-gray, thinly laminated chalk, which broke up into small uniform fragments in drilling with few larger angular fragments.	10	80
Laminated, pale bluish-gray chalk in small fragments, not so uniform in size as in much of above section. Subsurface layers slightly more massive.	10	90
Pale bluish-gray chalk in small medium fragments. Strata becoming somewhat harder and more massive.	10	100
Very pale bluish-gray chalk in very fine fragments. Strata probably rather soft and thinly laminated. Microfossils frequent.	10	110
Pale bluish-gray finely broken chalk. Few microfossils.	10	120
Pale bluish-gray chalk in uniformly small fragments.	10	130
Pale bluish-gray chalk in uniformly very small fragments.	10	140
Pale bluish-gray chalk in very small to fine fragments.	10	150
Very pale bluish-gray chalk in uniformly small fragments.	10	160
Pale bluish-gray chalk in uniformly small fragments, some of which carry many minute grains of green glauconite and some mica.	10	170
Bluish-gray chalk in uniformly small fragments, of which more than half are fairly rich in grains of green glauconite and a trace of mica.	10	180
Pale gray and white chalk in small fragments, few scattered fragments of yellow quartz. More than half the fragments of chalk carry numerous grains of green glauconite.	10	190
Bluish-gray and white chalk in uniformly small fragments, of which some are rich in glauconite. Scattered grains of yellow quartz.	10	200
Pale bluish-gray chalk, much of it carrying considerable glauconite. Scattered grains of yellow chert or quartz.	10	210
Pale bluish-gray chalk in very fine fragments carrying sparsely scattered grains of green glauconite.	10	220

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401—Continued		
Bluish-gray and white chalk in uniformly small fragments somewhat larger than those of many of the samples above. Glauconite frequent in many fragments. Microfossils abundant in chalk but not many loose specimens of forams or other microfossils.	10	230
Pale bluish-gray to almost white chalk in moderately small fragments. Glauconite grains frequent to common in many fragments. Microfossils abundant.	10	240
Pale bluish-gray chalk in uniformly small fragments of size somewhat larger than those found in many of above samples.	10	250
Pale bluish-gray chalk in uniformly rather small fragments. Some of which carry scattered grains of glauconite and abundance of microfossils. Scattering of yellow chert or quartz.	10	260
Pale bluish-gray chalk in fragments of rather uniform size but considerably larger than those in most preceeding samples. Considerable yellow chert. One specimen of Hamulus.	10	270
Pale gray to white chalk in rather large fragments of uniform size. Scattering of yellow chert and quartz.	10	280
Pale bluish-gray to white chalk in small to moderately large fragments.	10	290
Pale gray to white chalk in fragments from very small to moderately large. Some fragments carry scattered grains of glauconite; few are rich in finely divided pyrite.	10	300
Pale gray to very white chalk in fragments up to nearly half an inch. Very little glauconite in some fragments; finely divided pyrite frequent.	10	310
Pale gray to white chalk in uniformly small fragments, some of which carry considerable glauconite. Scattering of yellow chert and quartz.	10	320
Gray to white chalk up to fragment size of nearly half an inch. Some fragments are slightly argillaceous.	10	330
White chalk in fragments of various sizes up to half an inch.	10	340
White chalk in large fragments.	10	350
White chalk in large fragments.	10	360
White and light-gray chalk in large fragments.	10	370
White chalk in fragments of diverse sizes.	10	380
White and light-gray chalk in diverse sizes of fragments.	10	390
Light-gray and white chalk in diverse sizes of fragments up to more than half an inch. Few shell fragments.	10	400
Light-gray and white chalk in all sizes of fragments up to half an inch. Scattering of pyrites. Trace of shells.	10	410
Light-gray and white fragments of chalk up to more than half an inch.	10	420
Light-gray and white chalk in diverse sizes of fragments.	10	430
White and light-gray chalk in diverse sizes of fragments.	10	440
Light-gray and white chalk in diverse sizes of fragments, up to nearly an inch.	10	450
White and considerable gray chalk in diverse sizes of fragments. The gray tone of many of these fragments is obviously due to a trace of argillaceous matter, whereas the paler gray of much of the chalk in the overlying section was due to disseminated glauconite or to an abundance of calcitized fossils that absorbed the light.	10	460

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401—Continued		
White chalk with considerable distinctly gray chalk, which under magnification shows argillaceous matter in minute streaks along the planes of lamination, or it may be diffused through the material.	10	470
White and gray chalk in fragments of all sizes up to nearly an inch. The gray fragments are distinctly slightly argillaceous, and a few black carbonaceous particles can be observed. Pyrite is frequent.	10	480
Eagle Ford Formation, top at about 485'		
Mixture of white chalk, gray argillaceous chalk, some light greenish-gray calcareous hard shale. Scattering of pyrite.	10	490
Some white chalk, considerable greenish-gray, hard, dense shale; all fragments small. Few fragments are typical of the Eagle Ford Formation in texture and color.	10	500
Finely broken bluish-green, dense shale and considerable chalk, which has probably fallen from above. Considerable pyrite. Some of shale very finely laminated and carries a trace of carbonaceous matter.	10	510
Finely broken gray shale, considerable chalk, scattering of pyrite. Texture of shale fragments is characteristic of Eagle Ford but carbonaceous matter is very subordinate.	10	520
Finely broken, greenish-gray and gray shale, some particles rich in carbonaceous matter.	10	530
Finely broken, gray shale fragments with considerable carbonaceous matter. Some pyrite.	10	540
Gray shale in very small fragments; scattering of chalk probably from above.	10	550
Small fragments of dark-gray, very finely laminated, carbonaceous shale, considerable calcitic matter, numerous bundles of short *Inoceramus* prisms, trace of fish remains.	10	560
Gray, very minutely laminated, microscopically mottled (salt-and-pepper) shale with abundance of disseminated carbonaceous matter. Few chips of greenish shale.	10	570
Typical Eagle Ford gray shale with carboneous matter.	10	580
Typical dark, finely laminated, salt-and-pepper shale with considerable carbonaceous matter. Abundance of amber-colored, short *Inoceramus* prisms in stout bundles; considerable calcitic matter in irregular fragments.	10	590
Buda Formation absent		
Del Rio Formation, top at about 600'		
Wet sample carried much finely divided argillaceous matter that was almost a slime, a characteristic of Del Rio shales. Washed sample looks much like above Eagle Ford but carries a trace of dull-gray thinly laminated splintery shale with a greasy sheen. In fine material no Del Rio forams found.	10	600
Wet sample rich in fine slimy matter. Washed sample carries numerous fragments of a dull lead-gray, splintery shale of very smooth texture. In fine material are thin lenticular pellets of shale with a greasy sheen. No Del Rio forams.	10	610
Dull-gray, fine-textured, splintery shale abundant. In fine material the thin lenticular pellets common. One characteristic Del Rio foram; *Gyroidina nitida.*	10	620

Table 3.–Drillers' Logs of Selected Wells in Bell County–Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401–Continued		
Some lead-gray, smooth splintery shale. Minute thin lenticular pellets common in fine material. *Gyroidina nitida.*	10	630
Much lead-gray to almost black splintery shale. Numerous minute lenticular shale pellets in fine material. Three species of Del Rio forams: *Gyroidina nitida, Valvulineria asterigerinoides, Textularia rioensis.*	10	640
Considerable bluish-gray to lead-gray splintery smooth shale; numerous minute thin lenticular pellets in fine material. *Caudryinella delrioensis, Valvulineria asterigerinoides, Textularia rioensis, Gyroidina nitida.*	10	650
Considerable lead-gray splintery shale. Numerous minute, thin pellets in fine material. *Globigerina washitensis, Textularia rioensis, Valvulineria asterigerinoides, Gyroidina nitida, Textularia rioensis.*	10	660
Considerable lead-gray splintery shale; numerous minute lenticular pellets in fine material. *Textularia rioensis, Globigerina washitensis, Gyroidina nitida, Valvulineria asterigerinoides.*	10	670
Great abundance of dull lead-gray, splintery shale and in fine material many minute thin lenticular pellets of greasy-looking shale. *Gyroidina nitida, Valvulineria asterigerinoides, Textularia rioensis.*	10	680
Georgetown Formation, top at about 685'		
Frequent fragments of white, spherulitic limestone.	10	690
Abundance of white, spherulitic limestone.	10	700
Sample largely typical spherulitic white limestone.	10	710
Sample composed almost wholly of typical white spherulitic limestone.	10	720
Sample composed very largely of angular fragments of white spherulitic limestone.	10	730
Abundance of angular fragments of white spherulitic limestone.	10	740
Abundance of white spherulitic limestone.	10	750
Great abundance of angular fragments of white spherulitic limestone.	10	760
Sample almost wholly angular fragments of white spherulitic limestone.	10	770
White spherulitic limestone.	10	780
White spherulitic limestone.	10	790
Edwards Formation, top at about 800'		
Bare trace of pale-buff, dense, crystalline limestone bearing few miliolids.	10	800
Sample composed largely of buff limestone. Some fragments are dense and crystalline and carry miliolids; others are sugary and somewhat porous.	10	810
Buff limestone, some fragments dense, but most are sugary in texture and commonly porous.	10	820
Buff limestone from dense to porous and sugary.	10	830
Comanche Peak Formation		
Amongst the many fragments of typical Edwards limestone are numerous fragments composed of what appear to be oolites separated by a translucent matrix. The oolites for the most part are loose and chalky and fall out of place leaving a pitted fragment. Close examination shows that many of the oolites are really miliolids, so disintegrated that their structure is difficult to detect. Perhaps all the oolites are really miliolids.	10	840

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401—Continued		
Much "oolitic" yellow limestone as above described. One small test of a *Dictyoconus*. Several small rotund sponges.	10	850
Richly "oolitic" yellow limestone.	10	860
Buff "oolitic" yellow limestone.	10	870
Highly "oolitic" yellow limestone.	10	880
"Oolitic" buff limestone. Sponges, miliolids, *Globotruncana*, *Globigerina washitaensis*.	10	890
"Oolitic" buff limestone.	10	900
Granular, sugary, gray-buff to white limestone with deteriorated fossil fragments as white splotches on rock surfaces.	10	910
Grayish-buff, sugary, crystalline limestone. One fine test of *Dictyoconus walnutensis*.	10	920
Walnut Formation		
Mixed with the buff to white sugary limestone is a small amount of splintery, slightly greenish-gray shale.	10	930
Considerable splintery shale, slightly greenish-gray, very smooth texture, some dense white limestone different from any above and probably constituting a limestone break in the shale section at this point.	10	940
Considerable greenish, splintery shale mixed with dense, white limestone.	10	950
Splintery shale and white limestone.	10	960
Dense white limestone and splintery greenish-gray shale.	10	970
Dense white limestone and some splintery greenish-gray to dark-gray shale.	10	980
Mostly dense white limestone with appreciable amount of greenish-gray shale.	10	990
Well AX-40-62-401—Continued		
Sample largely splintery gray shale of very smooth texture; little dense white limestone.	10	1,000
No description.	10	1,010
Sample almost wholly thinly laminated, dull-gray shale of fine smooth texture.	10	1,020
Sample largely splintery dull-gray, fine-grained shale and an appreciable amount of light-gray to buff and white limestone fragments many of which appear to have fallen from above.	10	1,030
Splintery dull-gray shale with numerous small fragments of limestone, some of which may represent breaks in the shale section. Numerous very small heavy shell fragments indicate a shell bed has been penetrated.	10	1,040
Great abundance of dull-brownish and translucent angular fragments of shells, probably *Gryphaea*, mixed with some shale and small amount of limestone.	10	1,050
Great abundance of finely broken shells (*Gryphaea*) some shale, very little limestone.	10	1,060
Glen Rose Formation		
Some broken shells; large amount of dense, white limestone carrying fragments of heavy shells.	10	1,070
Much dense, hard, white limestone in small fragments, the surfaces of which are well marked by limestone and splotches representing imbedded fossils. Few loose shells; very little splintery shale.	10	1,080
Great abundance of dense white limestone mostly finely broken; few larger fragments. Limestone marked by numerous fossil inclusions and some mineral matter. Some dull-gray splintery shale.	10	1,090

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401—Continued		
Sample about 2/3 dense, white limestone and 1/3 gray, splintery shale, much of which seems to have washed down from above, since the fine portion carries frequent Del Rio forams, and some of the shale surfaces reveal imbedded tests of *Gumbelina*, which do not belong so low in the section as Glen Rose, so far as present records indicate.	10	1,100
Much dense, white limestone in finely ground condition. Considerable gray splintery shale, much of it from above.	10	1,110
Much finely broken, dense, hard, white limestone rich in fossil fragments. Considerable shale that looks suspiciously as if much had fallen from above.	10	1,120
Much finely broken, hard, white limestone rich in imbedded fossil matter. Considerable gray splintery shale much of which looks like contamination.	10	1,130
Much dense, white limestone and considerable dull gray splintery shale. Many limestone fragments comprise a fine coquina. Some of the shale present probably belongs to this section, as the greenish color is now.	10	1,140
Dense white limestone and considerable splintery shale.	10	1,150
Very finely broken, dense, white, crystalline limestone with abundance of dark inclusions giving the surfaces a mottled appearance. Many finely broken shell fragments are imbedded in the limestone. Dull-gray splintery shale abundant.	10	1,160
Much dense, white, hard limestone rich in dark inclusions giving a mottled appearance to the fragments. Considerable splintery shale.	10	1,170
Much dense, crystalline, mottled, white limestone and shell fragments. Much dull-gray, splintery shale and bluish-green splintery shale.	10	1,180
Well AX-40-62-401—Continued		
Much dense, hard, white, mottled limestone and considerable bluish-gray shale.	10	1,190
Much dense, white, hard, crystalline, mottled limestone, some fragments being a microscopic coquina in which miliolids are frequent. Some gray shale; some bluish-green shale.	10	1,200
Much hard, dense, white, crystalline, mottled limestone; some fragments a microscopic coquina. Some bluish-green shale.	10	1,210
Dense, hard, crystalline, mottled, white limestone carrying numerous miliolids. A few fragments are slightly sugary. Blue-green shale common.	10	1,220
Dense, hard, crystalline, mottled white limestone and considerable blue-green shale.	10	1,230
Dense, hard, crystalline, mottled limestone, some fragments rich in miliolids and other fossil fragments. Bluish-green shale common.	10	1,240
Mostly dense, hard, crystalline, mottled and coquina-like white limestone with miliolids and other fossil material. Little splintery gray and blue-green shale.	10	1,250
Dense, hard, crystalline, mottled limestone and abundance of splintery gray and greenish shale.	10	1,260
Dense, hard, crystalline, mottled, white limestone; some rich in miliolids. Few fragments of white sugary limestone. Considerable gray and greenish shale.	10	1,270
Dense, hard, crystalline, mottled, white limestone, many fragments with miliolids. Considerable gray and greenish splintery shale.	10	1,280

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401—Continued		
Dense, hard, mottled crystalline, white limestone with many rotund miliolids. Considerable gray and greenish, splintery shale.	10	1,290
Hard, white, mottled limestone that is largely a microscopic coquina. Considerable gray and greenish shale.	10	1,300
Hard, crystalline, white limestone and much highly mottled white and dark-gray limestone, as the dark inclusions increase in proportion. Many dark stains and irregularly distributed streaks and patches carry a resinous sheen. Greenish shale abundant.	10	1,310
Hard, crystalline limestone, some fragments a white coquina, others rich in dark-gray mottled areas and inclusions in a dense matrix. Greenish shale common.	10	1,320
Mostly white limestone, much of it mottled by imbedded fossils and gray inclusions. Streaks of pyrite and some loose crystals of pyrite. Bluish-green shale.	10	1,330
Mottled, crystalline, hard, white limestone. Much bluish-green shale.	10	1,340
Hard, mottled, crystalline, dense, white limestone rich in miliolids. Much gray and slightly greenish shale.	10	1,350
White limestone and much greenish-gray splintery shale. Miliolids abundant.	10	1,360
White, hard, mottled limestone and greenish splintery shale.	10	1,370
Great abundance of white coquina-like mottled limestone and dense crystalline mottled limestone with milolids. Some splintery greenish shale.	10	1,380
Hard, crystalline, dense and coquina-like mottled limestone and much greenish shale.	10	1,390
About equal proportions of white hard limestone and greenish-gray splintery shale.	10	1,400
Well AX-40-62-401—Continued		
About equal proportions of white crystalline mottled limestone and splintery greenish-gray shale.	10	1,410
About equal proportions of hard, mottled, crystalline or coquina-like white limestone and greenish-gray and gray shale.	10	1,420
White limestone broken down in drilling almost to a sand grade in the sample, which comprises largely the component microfossils of the original probably lightly cemented mass of material in the coquina-like limestone. "Sand" comprises to a large extent separate miliolid tests. Very little shale.	10	1,430
Sample is a limestone "sand" as the result of drilling the coquina-like limestone composed of microfossils and small fragments as well as small granules of calcareous matter. Many of the grains are miliolids.	10	1,440
"Lime sand" composed of minute fossils and fossil fragments as well as granules of white limestone. Many of the grains are miliolids.	10	1,450
Sample is almost a perfectly uniform "lime sand" in grade, composed of small granules of limestone, miliolids, and other fossil fragments. In acid the material dissolves almost entirely leaving a faint trace of dark argillaceous matter, probably the dark inclusions of the mottled limestone, so common throughout this limestone formation.	10	1,460
Finely broken, angular limestone fragments and very little shale. Limestone is hard, crystalline, mottled, and some fragments are sugary and somewhat porous.	10	1,470
Finely broken, hard, crystalline, mottled, white limestone and some sugary white limestone; very little shale. Miliolids abundant; also other forams (as yet unnamed) are frequent.	10	1,480

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401—Continued		
Sample composed largely of fine "lime sand" with few angular chips of hard, white limestone. "Sand" consists of grains of broken limestone or components of the granular limestone as well as miliolids and other forams.	10	1,490
Finely broken limestone in angular chips and much of the "sand" encountered above. Very little shale.	10	1,500
Hard, dense, crystalline, mottled, white limestone and considerable bluish-green shale.	10	1,510
Hard, dense, crystalline, mottled, white limestone and little sugary limestone. Considerable blue-green shale.	10	1,520
Dense, hard, crystalline, mottled, white limestone and coquina-like limestone. Much blue-green shale. Few scattered fragments of sugary limestone.	10	1,530
Finely broken, hard, white, crystalline, mottled limestone and coquina-like limestone. Considerable blue-green shale.	10	1,540
Hard, crystalline, dense, white limestone and coquina-like limestone with many miliolids. Considerable blue-green shale.	10	1,550
Hard, white, mottled, crystalline limestone and coquina-like white limestone. Considerable blue-green splintery shale. Few shell fragments.	10	1,560
Hard, white, mottled, coquina-like limestone with miliolids; much blue and greenish shale.	10	1,570
Hard, crystalline, mottled, dense, white limestone with milolids; considerable bluish-green shale.	10	1,580
Hard, crystalline, mottled, white limestone; much blue-green shale. Miliolids common.	10	1,590
Well AX-40-62-401—Continued		
Hard, dense, mottled, white limestone; large proportion of blue to greenish splintery shale.	10	1,600
Hard, dense, crystalline, mottled, white limestone and much bluish-green to gray shale.	10	1,610
Hard, dense, crystalline, mottled, white limestone and some sugary white limestone; considerable splintery greenish-gray shale.	10	1,620
Hard, dense, crystalline, white limestone full of fossil remains; some sugary porous white limestone. Some splintery bluish to greenish shale.	10	1,630
Hard, dense, crystalline, mottled, white limestone; some sugary porous limestone. Some greenish shale.	10	1,640
Hard, dense, crystalline, mottled, white limestone; some sugary white limestone likely to be porous in places. Some bluish and greenish shale. Miliolids.	10	1,650
Dense, hard, crystalline, mottled, white limestone and some sugary white porous limestone. Considerable splintery gray shale.	10	1,660
Hard, dense, crystalline, mottled limestone and some sugary limestone. Considerable dark-gray shale and little bluish-greenish shale.	10	1,670
Sample is white and mottled limestone ground to sand grade with few scattered angular chips. Much of limestone is sugary but most is dense and granular. Miliolids common. Some splintery shale.	10	1,680
Finely broken white and mottled limestone with some fair-sized chips. Both hard, dense, white limestone and sugary limestone. Some bluish-green, splintery shale.	10	1,690

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401—Continued		
Dense, hard, mottled, white limestone; few sugary fragments.	10	1,700
Hard, dense, mottled, white limestone; some sugary, porous limestone. Very little shale.	10	1,710
Hard, dense, crystalline, mottled, white limestone; some sugary porous limestone. Very little shale.	10	1,720
Finely ground, white limestone with some small chips of large size. Almost no shale.	10	1,730
Very finely ground, white limestone, or "lime sand." Almost no shale.	10	1,740
Hard, dense, mottled, white limestone and some sugary limestone. Very little shale.	10	1,750
Hard, dense, crystalline, mottled, white limestone; considerable porous sugary limestone. Little splintery shale.	10	1,760
Both dense and porous, white limestone. Some splintery shale.	10	1,770
Porous, sugary limestone more abundant than in previous samples. Little shale.	10	1,780
Sugary, porous, somewhat brownish limestone abundant together with mottled, dense, white limestone. Few quartz grains. Very little shale.	10	1,790
Light-brown sugary limestone, very porous and composed of minute calcite crystals. Most of it highly cavernous. Few angular quartz grains.	10	1,800
No record	10	1,810
Abundance of sugary, porous, light-brown limestone with generous portion of dense white mottled limestone in finer portion of sample, possibly washed down from above. Very little shale.	10	1,820
Well AX-40-62-401—Continued		
Porous, sugary, light-brown limestone; some dense, mottled, white limestone, which may have washed down from above, thick section. Few loose quartz grains. Very little shale.	10	1,830
Abundance of light-brown, porous, sugary limestone, considerable dense, mottled, white limestone in the finer grade of sample. Little bluish shale. Very few quartz grains.	10	1,840
Finely ground, dense, mottled, white limestone and light-brown sugary limestone. Almost no shale.	10	1,850
Great abundance of light-brown, porous, sugary limestone; little dense, white, mottled limestone. Very small amount of shale.	10	1,860
Much light-brown, porous, sugary limestone and some dense, mottled, white limestone. Very little shale.	10	1,870
Considerable dense, white, mottled limestone and almost an equal amount of light-brown sugary, porous limestone. Considerable shale.	10	1,880
Finely broken and ground limestone, both the dense white and the brown sugary types. Numerous large splinters of shale.	10	1,890
Finely ground limestone, both the dense, mottled white type so abundant in above section and the light-brown sugary type frequent in the lower portion of the above section. Considerable splintery bluish-green shale.	10	1,900
Finely ground limestone, both the hard, dense, white and the porous, sugary, light-brown. Some splintery shale.	10	1,910

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401—Continued		
Numerous thin plates of laminated, very fine grained, light-gray sandstone accompanied by the usual ground limestone fragments. Considerable pyrite and shale.	10	1,920
Core: (1,922-1,926 ft.)		
Micaceous, friable, laminated, gray silt with argillaceous matter in thin streaks and pockets in zones. (25 in.) Hard, calcareous silt with considerable mica and little shale. (4 in.) Finely laminated gray shale with partings and thin streaks of micaceous silt; calcareous zone in portions of this length. (18 in.) Almost wholly blue-green, splintery shale. Trace of fine-grained sandstone.	10	1,930
Largely greenish, splintery shale with some very fine-grained, light-gray sandstone.	10	1,940
Largely greenish, splintery shale with some fine-grained, light-gray sandstone.	10	1,950
Largely greenish, splintery shale and some fine-grained, light-gray sandstone.	10	1,960
Mostly greenish, splintery shale, some fine-grained sandstone, some hard, white mottled limestone.	10	1,970
Dominantly greenish, splintery shale, little fine-grained, gray sandstone, considerable finely-ground white limestone possibly washed down from above.	10	1,980
Much greenish, splintery shale, little fine-grained sandstone, considerable finely-ground limestone.	10	1,990
Largely splintery, greenish shale; trace of fine-grained sandstone, little finely-ground limestone.	10	2,000
Greenish, splintery shale; fine-grained, gray sandstone; little ground limestone (perhaps washed down from above.)	10	2,010
Much ground limestone and considerable greenish shale; little fine-grained sandstone.	10	2,020
Much limestone and shale; little fine-grained sandstone.	10	2,030
Ground limestone and shale with little fine-grained, gray sandstone.	10	2,040
Much loose quartz sand; considerable splintery shale.	10	2,050
Loose sand in abundance; considerable splintery, gray and greenish shale.	10	2,060
Much loose quartz sand; considerable splintery green shale.	10	2,070
Fine, light-gray quartz sand, some thinly laminated shale.	10	2,080
Core: (2,080-2,090 ft.)		
Dense, bluish-green shale with few silty and micaceous partings and irregularly distributed calcareous zones and areas. (7 in.) White, friable, fine sand. (3 in.) Very dense, blue-green shale with few silty partings in places, irregularly distributed calcareous areas. (21 in.) Friable, fine, white sand not particularly well bedded. (18 in.) Fine to coarse quartz sand and fine gravel. Trace of shells; very little shale. Large fragments of angular quartz fragments of small gravel sizes are to a large extent probably ground-up pebbles.	10	2,090
Mixture of fine to coarse sand and small gravel, which is angular and probably ground-up pebbles. Considerable thinly laminated, gray shale.	10	2,100
Fine to coarse sand, little small gravel or possibly ground-up pebbles. Much thinly laminated gray shale.	10	2,110
Fine gray sand, coarse sand, fine gravel; considerable thinly laminated gray shale. Much of the so-called small gravel is probably ground-up pebbles of a conglomeratic layer.	10	2,120

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401—Continued		
Largely fine gray sand, some coarse sand and fine gravel, which may be ground-up pebbles in conglomeratic layers.	10	2,130
Some fine and much coarse sand, little small gravel, which is probably largely ground-up pebbles. Little thinly laminated dark-gray shale.	10	2,140
Almost wholly very coarse sand or very small gravel. Trace of shale.	10	2,150
Largely coarse sand with some very fine gravel. Considerable laminated dark-gray shale.	10	2,160
Core: (2,161-2,166.5 ft.)		
Core completely lost, except for a small handful of rounded pebbles from size of a pea to size of small egg. Pebbles consist of hard greenish siltstone, chert, quartz. Fine to coarse sand about half the sample; rest, laminated dark-gray shale.	5	2,165
Fine to coarse sand, few small fragments dark-gray, laminated shale.	3	2,168
Fine sand to coarse sand, considerable fine gravel that is probably to a large extent ground-up pebbles.	10	2,178
Fine to coarse sand and fine gravel, which is quite obviously the result of grinding up pebbles.	10	2,188
Fine to coarse sand and small gravel, of which much is apparently ground-up pebbles.	10	2,198
Very coarse quartz fragments that must be ground-up pebbles in a conglomeratic layer. Considerable fine to coarse sand.	10	2,208
Very coarse quartz fragments that are undoubtedly ground-up pebbles. Fine to coarse sand.	7	2,215
Very coarse quartz fragments that are probably ground-up pebbles. Fine to coarse sand.	10	2,225
Fine to coarse quartz material, much of it representing pebbles in a layer somewhere in the penetrated section. Fine to coarse sand.	10	2,235
Coarse sand and some shale.	10	2,245
Coarse yellow to pink quartz grains of considerable size, much of it ground-up boulders. Fine to coarse sand.	5	2,250
Core: (2,250-2,256 ft.)		
Sample in pint jar consists of partially cemented fine gravel and sand. Coarse quartz fragments and little laminated shale. Fine to coarse sand.	10	2,260
Coarse quartz fragments, some of them ground-up pebbles in a conglomeratic layer. Fine to coarse sand.	10	2,270
No record.	5	2,275
Core: (2,275-2,281 ft.)		
"Core from bottom of core head, sand and conglomerate." A jar of soft material and packages of hard material. The soft sample in the jar consists of clayey gravel that ranges from small and rather large quartz pebbles. In packages are three portions, one boulder of gray siltstone loosely bound by a calc cement; another a rather fine conglomerate in a matrix of well-cemented sand; the third a large irregular boulder of a pale-gray, "chalky," slightly micaceous, soft, and fine silt, which is represented also in the hard core taken at 2,288.6-2,291 ft.	6	2,281
No record.	7	2,288
Core: (2,288-2,288.6 ft.)		
A box of several portions of the core and a jar of some soft, loose material submitted for study. The several portions packaged consist of squeezed dark gray shaly silt and pockets of white coarse sand carrying few pebbles. One		

Table 3.--Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401—Continued		
portion carries a large white boulder of thinly laminated, shaly, white material that looks like highly altered chert. Material in jar consists of few hard quartz boulders and some dark, laminated, gray silty shale.	.6	2,288.6
Core: (2,288.6-2,291 ft.)		
Representative portions of the core packed in jar and in two small packages. Two portions consist of a coarse conglomerate composed of a heterogeneity of material in all sizes of boulders from fine and coarse sand in the matrix upward to gravel from size of a pea to almost egg dimensions. Boulders are largely quartz, jasper, and flint with a few gray siltstones and several deeply imbedded, irregular boulders of a soft, chalky, pale-gray clay. The portion in the jar is a soft gray, somewhat silty clay.	2.4	2,291
Well AX-40-62-801		
Owner: Bell County WCID No. 1 Driller: J. L. Myers Sons		
Yellow clay	35	35
Chalk rock	400	435
Chalk	110	545
Shale	305	850
Lime	145	995
Shale and lime streaks	35	1,030
Lime	170	1,200
Shale	35	1,235
Lime	5	1,240
Shale - lime	58	1,298
Lime	422	1,720
Lime - shale	150	1,870
Lime	75	1,945
Sand	35	1,980
Sandy lime	25	2,005
Shale - lime	65	2,070
Shale - sand streaks	140	2,210
Sand (Hosston Sand)	65	2,275
Sand and shale (Hosston Sand)	60	2,335
Sand (Hosston Sand)	20	2,355
Sandy - shale - gravel	11	2,366
Well AX-58-02-301		
Owner:—Bissett Driller: Layne Texas Co.		
Air	4	4
Soil	7	11
Clay and sandy clay	8	19
River bed and sand	14	33
White rock and lime	13	46
Blue shale	7	53
Lime rock - hard	3	56
Hard lime and shale	14	70
Rock	20	90
Lime rock and hard shale	32	122
Rock and hard gray shale	154	276
Rock and breaks of shale	18	294
Hard white lime	25	319
Hard sandy lime and shale	19	338
Hard sandy lime and shale	20	358
Blue shale	44	402
Sandy shale	7	409
Sandy lime and shale	53	462
Hard lime and shale breaks	10	472
Hard shale pink	25	497
Hard blue and brown and pink shale and streaks of lime	46	543
Hard rock	14	557
Hard blue and brown shale	36	593

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-58-02-301—Continued		
Hard limerock	7	600
Hard black shale and layers of lime	28	628
Well AX-58-04-602		
Owner: Salado Water Supply Corp. Driller: Hervey Meadows and Son Well Driller		
Black soil	2	2
Red soil	6	8
White rock	10	18
Blue rock	24	42
Brown water sand	54	96
Blue rock	9	105
Well AX-58-04-603		
Owner: Salado Water Supply Corp. Driller: Hervey Meadows and Son Well Driller		
Soil	.5	.5
White chalk	3	3.5
White rock	13.5	17
Blue rock	17	34
Hard broken lime	51	85
Blue rock	25	110
Brown water sand	50	160
Well AX-58-04-802		
Owner: Texas Highway Department Driller: Hervey Meadows and Son Well Driller		
Black dirt	6	6
Clay	10	16
Blue rock	24	40
White and gray lime	49	89
Hard white and brown lime	45	134
Limestone glass and sand	41	175
Brown lime	5	180
Well AX-58-04-803		
Owner: Texas Highway Department Driller: Hervey Meadows and Son Well Driller		
Black dirt	6	6
Clay	17	23
Hard blue rock	66	89
Hard gray lime	30	119
Hard sand	21	140
Hard limestone glass	35	175
Brown lime	5	180
Well AX-58-05-202		
Owner: Armstrong Water Supply Corp. Driller: Watts Drilling Co.		
Topsoil	1	1
White soapstone	35	36
Blue slate	6	42
Chalk lime	107	149
Blue shale	201	350
White lime	34	384
Lime and shale	134	518
Lime (hard)	68	586
Shale and lime streaks	186	772
Lime (hard)	16	788
Lime and shale	230	1,018
Glen Rose lime and sand	176	1,194
Shale and lime	124	1,318
Sand, shale, and small lime streaks	162	1,480
Lime (hard)	28	1,508
Shale and lime	48	1,556
Shale and lime	48	1,604
Lime, shale, and sand streaks	28	1,632
Shale	74	1,706
Sand and gravel	32	1,738
Lime (hard)	2	1,740

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

Well AX-58-05-402

Owner: Ellis Holland
Driller: Trim and Son Contractors

	THICKNESS (FEET)	DEPTH (FEET)
Surface	1	1
Chalk	7	8
Chalk and lime	12	20
Chalk and shale, seep water 30 ft.	15	35
Gray shale and lime (pyrites)	40	75
Hard lime	3	78
Chalk, lime, and marl	203	281
Black shale (pyrites)	14	295
Hard lime	5	300
Black shale (pyrites)	10	310
Lime	11	321
Black shale (pyrites)	76	397
Lime shell (Buda)	5	402
Black shale (pyrites)	18	420
Lime shale (Buda)	3	423
Black shale (480 ft. trace oil)	80	503
Pyrite shell	1	504
Black shale (pyrites)	21	525
Lime (Georgetown)	27	552
Gray marl	2	554
Lime	10	564
Gray marl shale (570 ft. trace oil)	16	580
Lime	12	592
Gray shale	13	605
Hard lime (Edwards)	12	617
Soft lime (trace oil)	8	625
Hard lime	13	638
Lime gravel (good water)	12	650
Flint	1	651
Yellow lime (bottom Edwards)	31	682
Sandy lime	8	690

Well AX-58-05-402—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Hard lime and granite	41	731
Chalky lime	7	738
Hard white lime	12	750
Gray lime - hard	30	780
Soft gray lime	2	782
Gray shale (trace oil)	2	784
Hard lime	9	793
Gray shale	3	796
Hard lime	8	804
Gray shale	7	811
Hard lime	16	827
Gray shale	8	835
Soft lime	14	849
Gray shale	8	857
Hard lime	6	863
Black shale	6	869
Broken lime and gray shale	106	975
White and gray hard lime - few black lime stratas Fresh water stratas 1,075 ft.	455	1,430
Blue gray shale	7	1,437
Hard gray lime - fresh water 1,495 ft.	83	1,520
Gray shale	2	1,522
Gray sand - fresh water	68	1,590
Gray shale	4	1,594
Gray lime	9	1,603
Gray shale and lime	97	1,700
Gray sand	5	1,705
Gray sandy shale	42	1,747
Gray sand - fresh water	18	1,765
Hard lime	10	1,775
Sandy shale	18	1,793
Hard gray lime	12	1,805
Soft gray sand - fresh water	15	1,820

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-58-05-402—Continued		
Hard gray sand	5	1,825
Hard lime shell	2	1,827
Well AX-58-05-403		
Owner: Leon River Farms Driller: Hervey Meadows and Son Well Driller		
Soil	1	1
White rock	21	22
Blue rock	52	74
White rock	142	216
Black shale	274	490
White lime	220	710
Blue shale	95	805
White rock	35	840
Black shale	150	990
Glen Rose lime	590	1,580
Trinity Sand	50	1,630
Well AX-58-05-901		
Owner: City of Holland Driller: K. E. Edwards		
Soil	8	8
Yellow clay (surface water)	17	25
Yellow clay blue shale rock	6	31
Gray gumbo	44	75
Gumbo	75	150
Lime	50	200
Blue limestone	50	250
Lime	110	360
Lime streaks, blue clay	170	530
Gumbo	95	625
Black shale	82	707
Gray limestone	13	720
Blue shale, lime shells	86	806
Gray limestone (Georgetown)	30	836
Gumbo with clay	64	900
Gumbo with clay	90	990
Water sand, sulphur water (Edwards lime)	54	1,044
Lime (2 ft. sand) little water shown	22	1,066
Gumbo white clay	49	1,115
Water sand	5	1,120
Gray lime	20	1,140
Lime shows little water	90	1,230
Blue shale	18	1,248
White lime	102	1,350
Lime streaks white clay (water)	150	1,500
Lime	250	1,750
Lime	45	1,795
Gumbo	5	1,800
Water sand	5	1,805
Lime streaks white clay	107	1,912
Trinity water sand	53	1,965
Gumbo	5	1,970
Black gumbo	23	1,993
Well AX-58-07-701		
Owner: City of Rogers Driller: Layne Texas Co.		
Surface soil	4	4
Yellow clay	12	16
Black shale	82	98
Gray shale	238	336
Black shale	203	539
Gray shale	49	588
Chalk	283	871
Chalk and shale	10	881
Shale	16	897
Chalk and shale	35	932
Chalk	182	1,114

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well AX-58-07-701—Continued		
Chalk and shale	57	1,171
Black shale	62	1,233
Lime and shale	10	1,243
Shale	22	1,265
Lime	82	1,347
Lime and shale	30	1,377
Lime	120	1,497
Lime and shale	27	1,524
Lime	215	1,739
Shale	3	1,742
Lime and shale	24	1,766
Lime	123	1,889
Lime and shale	250	2,139
Shale and lime	18	2,157
Lime	222	2,379
Lime and shale	56	2,435
Shale and lime	32	2,467
Lime	28	2,495
Lime and shale	73	2,568
Soft lime	21	2,589
Lime	160	2,749
Shale and lime	16	2,765
Porous lime	11	2,776
Lime and shale	62	2,838
Lime	5	2,843
Sand and shale	15	2,858
Sand	8	2,866
Shale and sandy shale	30	2,896
Lime and shale	14	2,910
Sand with few layers of shale	100	3,010
Hard shale	11	3,021
Sand and gravel	86	3,107
Shale	6	3,113
Sand	59	3,172
Hard shale	6	3,178

BELL COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

Well AX-40-53-505

Owner: Moffat Water Supply Corp.

DATE	WATER LEVEL
Jan. 16, 1967	243.55
Apr. 12, 1967	245.56

Well AX-40-53-704

Owner: J. G. Nash

DATE	WATER LEVEL
Oct. 21, 1965	213.5
Mar. 10, 1966	211.22
Apr. 12, 1967	221.65
Mar. 21, 1968	225.0
Mar. 3, 1969	229.50

Well AX-40-53-902

Owner: Temple Municipal Airport

DATE	WATER LEVEL
Feb. 6, 1952	158
Mar. 14, 1966	206.05
Apr. 12, 1967	216.93

Well AX-40-54-501

Owner: City of Troy

DATE	WATER LEVEL
1934	20
Feb. 12, 1965	191.32
Dec. 9, 1965	200.96
Mar. 21, 1966	201.43
May 9, 1966	202.5
May 16, 1966	202.6
May 23, 1966	202.6
May 30, 1966	203.0
June 6, 1966	203.0
June 13, 1966	206.8

Well AX-40-54-501—Continued

DATE	WATER LEVEL
June 20, 1966	207.6
June 27, 1966	205.4
July 5, 1966	204.4
July 12, 1966	204.7
July 20, 1966	204.3
July 27, 1966	205.9
Aug. 5, 1966	206.4
Aug. 11, 1966	206.4
Aug. 22, 1966	206.2
Aug. 31, 1966	205.5
Sept. 12, 1966	206.0
Sept. 26, 1966	206.2
Oct. 19, 1966	206.2
Oct. 24, 1966	206.3
Oct. 31, 1966	206.0
Nov. 7, 1966	206.5
Nov. 14, 1966	206.7
Nov. 21, 1966	206.4
Nov. 28, 1966	207.4
Dec. 6, 1966	211.6
Dec. 19, 1966	206.8
Dec. 27, 1966	206.4
Jan. 3, 1967	206.2
Jan. 16, 1967	207.3
Jan. 23, 1967	206.6
Jan. 30, 1967	207.0
Feb. 6, 1967	206.7
Feb. 13, 1967	207.2
Feb. 20, 1967	207.3

Well AX-40-54-501—Continued

DATE	WATER LEVEL
Feb. 27, 1967	207.6
Mar. 13, 1967	205.6
Mar. 27, 1967	207.6
Apr. 3, 1967	208.0
Apr. 10, 1967	208.3
Apr. 17, 1967	208.1
Apr. 24, 1967	208.2
May 1, 1967	208.8
May 8, 1967	208.6
May 15, 1967	209.3
May 22, 1967	209.4
May 29, 1967	209.7
June 5, 1967	210.0

Well AX-40-55-701

Owner: Oenaville and Belfalls Water Supply Corp.

DATE	WATER LEVEL
Apr. 5, 1961	78
Apr. 27, 1965	89.63
Oct. 15, 1965	89.07
Mar. 11, 1966	90.88
Aug. 29, 1966	94.08
Sept. 29, 1966	94.30
Oct. 31, 1966	94.22
Nov. 23, 1966	93.95
Dec. 28, 1966	95.12
Mar. 23, 1966	95.9
May 4, 1967	98.90
June 7, 1967	96.47
Sept. 18, 1967	98.74

Table 4.—Water Levels in Selected Wells in Bell County—Continued

DATE	WATER LEVEL
Well AX-40-55-701—Continued	
Oct. 3, 1967	99.81
Nov. 7, 1967	100.63
Dec. 8, 1967	99.38
Feb. 8, 1968	102.05
Mar. 20, 1969	104.54
Well AX-40-59-301	
Owner: Harvey Bacon, Jr.	
Aug. 7, 1964	265
Sept. 18, 1967	298.0
Mar, 22, 1968	283.0
Mar. 3, 1969	292.4
Well AX-40-59-701	
Owner: Wineford Cosper	
July 1963	360
Sept. 15, 1967	217.5
Mar. 22, 1968	215.03
Mar. 3, 1969	220.3
Well AX-40-61-105	
Owner: U.S. Army Corps of Engineers	
Oct. 21, 1965	182.20
Mar. 7, 1966	174.35
Aug. 30, 1966	189.16
Sept. 27, 1966	186.33
Nov. 23, 1966	186.02
Dec. 28, 1966	183.16
Apr. 13, 1967	187.43
May 5, 1967	186.49
June 7, 1967	187.70
June 29, 1967	195.31
Sept. 18, 1967	203.18
Oct. 3, 1967	200.54

DATE	WATER LEVEL
Well AX-40-61-105—Continued	
Nov. 10, 1967	198.16
Dec. 8, 1967	194.35
Jan. 12, 1968	193.00
Feb. 8, 1968	190.40
Mar. 13, 1968	192.45
Mar. 3, 1969	191.20
Well AX-40-61-404	
Owner: City of Belton	
Dec. 8, 1965	75.15
Mar. 7, 1966	73.09
May 9, 1966	82.92
May 16, 1966	73.00
May 23, 1966	79.00
May 30, 1966	75.00
June 20, 1966	80.0
Aug. 31, 1966	85.42
Sept. 28, 1966	72.50
Nov. 21, 1966	60.82
Dec. 28, 1966	60.39
May 4, 1967	83.23
Well AX-40-61-405	
Owner: City of Belton	
Oct. 14, 1965	73.80
Dec. 8, 1965	67.64
Mar. 10, 1966	67.42
May 9, 1966	79.4
May 16, 1966	71.4
May 23, 1966	73.4
May 30, 1966	72.4
June 20, 1966	79.8
Aug. 31, 1966	77.3
Sept. 28, 1966	64.4
Nov. 3, 1966	58.9

DATE	WATER LEVEL
Well AX-40-61-405—Continued	
Nov. 22, 1966	55.9
Dec. 28, 1966	52.9
May 4, 1967	75.05
Mar. 20, 1969	84.11
Well AX-40-61-509	
Owner: City of Temple	
Mar. 21, 1952	31
Oct. 13, 1965	62.81
Mar. 11, 1966	56.18
Apr. 13, 1967	75.17
Mar. 13, 1968	73.74
Mar. 20, 1969	65.78
Well AX-40-61-703	
Owner: City of Belton	
July 28,1952	120
Oct. 22, 1952	201.95
Oct. 14, 1965	146.76
Mar. 10, 1966	138.72
Apr. 13, 1967	158.64
Mar. 22, 1968	155.25
Mar. 20, 1969	167.72
Well AX-40-61-901	
Owner: Taylors Valley Water Supply Corp.	
Aug. 1964	128
Oct. 14, 1965	130.02
Mar. 10, 1966	126.50
Apr. 13, 1967	135.00
Mar. 22, 1968	140.88
Mar. 17, 1969	138.17

Table 4.—Water Levels in Selected Wells in Bell County—Continued

Well AX-40-62-101

Owner: City of Temple

DATE	WATER LEVEL
Oct. 23, 1951	70
Oct. 13, 1965	265.19
Dec. 8, 1965	263.54
Mar. 10, 1966	267.50
May 9, 1966	269.72
May 16, 1966	271.13
May 23, 1966	270.60
May 30, 1966	269.88
June 6, 1966	270.53
June 10, 1966	271.52
June 18, 1966	271.93
June 24, 1966	276.37
July 1, 1966	271.99
July 8, 1966	271.33
July 15, 1966	272.94
July 22, 1966	274.97
Aug. 1, 1966	277.28
Aug. 29, 1966	275.53
Sept. 27, 1966	273.62
Oct. 31, 1966	272.1
Nov. 23, 1966	274.43
Dec. 28, 1966	272.48
Mar. 27, 1967	272.82
May 4, 1967	276.00
June 7, 1967	276.15
June 29, 1967	278.96
Aug. 14, 1967	285.02
Sept. 18, 1967	282.55
Oct. 3, 1967	282.78
Nov. 9, 1967	285.81
Dec. 8, 1967	282.52
Jan. 12, 1968	282.95
Feb. 8, 1968	284.03

Well AX-40-62-101 - Continued

DATE	WATER LEVEL
Mar. 13, 1968	283.85
Mar. 17, 1969	278.01

Well AX-40-62-801

Owner: Bell County WCID No. 1

DATE	WATER LEVEL
June 1960	Flowed
Oct. 15, 1965	11.21
Feb. 21, 1966	11.20
Aug. 29, 1966	15.32
Sept. 27, 1966	15.28
Oct. 31, 1966	15.22
Nov. 23, 1966	15.43
Dec. 29, 1966	16.15
Mar. 23, 1967	17.00
May 5, 1967	17.03
June 8, 1967	17.13
June 30, 1967	18.27
Mar. 20, 1969	23.97

Well AX-40-63-501

Owner: East Bell Water Supply Corp.

DATE	WATER LEVEL
Oct. 15, 1965	+ 13.5
Mar. 11, 1966	+ 13.5
Apr. 17, 1967	+ 12.3
Mar. 22, 1968	+ 8.93
Mar. 18, 1969	+ 11.24

Well AX-58-03-901

Owner: Solana Ranch

DATE	WATER LEVEL
June 1951	90
Oct. 4, 1967	156.2
Mar. 17, 1969	155.90

Well AX-58-04-601

Owner: — Pirdle

DATE	WATER LEVEL
Mar. 31, 1961	54
Mar. 14, 1966	57.07
Aug. 30, 1966	59.80
Sept. 28, 1966	59.1
Nov. 3, 1966	60.9
Nov. 23, 1966	60.72
Dec. 28, 1966	60.96
Apr. 17, 1967	62.03
May 5, 1967	61.70
June 9, 1967	62.30
June 29, 1967	65.45
Aug. 14, 1967	62.81
Oct. 4, 1967	62.79
Nov. 9, 1967	62.68
Dec. 8, 1967	61.60
Jan. 12, 1968	62.12
Feb. 8, 1968	58.83
Mar. 17, 1969	59.63

Well AX-58-04-801

Owner: — Killingsworth

DATE	WATER LEVEL
Mar. 11, 1966	134.93
Apr. 17, 1967	139.50
Mar. 17, 1969	136.84

Well AX-58-05-403

Owner: Leon River Farms

DATE	WATER LEVEL
Mar. 15, 1966	114.25
Apr. 17, 1967	118.03
Mar. 22, 1968	122.55
Mar. 17, 1969	123.80

Table 4.—Water Levels in Selected Wells in Bell County—Continued

DATE	WATER LEVEL
Well AX-58-05-902	
Owner: City of Holland	
Mar. 16, 1966	33.24
Aug. 30, 1966	36.68
Sept. 28, 1966	36.48
Nov. 3, 1966	37.52
Nov. 23, 1966	37.12
Dec. 30, 1966	36.97
Mar. 23, 1967	37.35
May 5, 1967	38.23
June 9, 1967	38.36
June 30, 1967	39.17
Sept. 15, 1967	42.59
Oct. 4, 1967	42.66
Nov. 9, 1967	42.93
Dec. 8, 1967	42.78
Jan. 12, 1968	42.94
Feb. 16, 1968	43.12
Mar. 13, 1968	44.60
Mar. 17, 1969	44.20
Well AX-58-06-102	
Owner: Bell County WCID No. 2	
1955	+ 52
1961	+ 38
Oct. 15, 1965	Flowed
Feb. 21, 1966	+ 6.5
May 12, 1967	0
Mar. 22, 1968	3.48
Mar. 17, 1969	2.16
Well AX-58-07-301	
Owner: T. D. Meacham	
Nov. 9, 1960	+ 90
Mar. 11, 1966	+ 80.8
Apr. 17, 1967	+ 77.3

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kes, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
1/ AX-40-51-801	910	Jan. 29, 1943	Kgr, Khe	- -	- -	39	27	* 1,206	- -	507	951	1,010	- -	0.5	- -	3,480	- -	208	93	- -	- -	36.4
52-302	770	Oct. 22, 1965	Khe	11	- -	14	9	461	- -	414	380	227	2.9	2.5	- -	1,310	- -	73	93	2,080	8.0	23.6
302	770	May 11, 1966	do.	- -	0.32	13	9	460	- -	418	380	231	2.2	< .4	- -	1,510	1,301	69	94	2,464	8.3	23.8
903	758	Jan. 17, 1961	do.	- -	.40	8	6	490	- -	405	255	316	1.8	< .4	- -	1,434	1,276	45	96	2,390	8.5	31.8
903	758	May 11, 1966	do.	- -	.54	10	5	456	- -	466	192	334	2.2	< .4	- -	1,470	1,229	44	96	2,416	8.3	29.6
2/ 53-102	917	Apr. 8, 1963	do.	- -	.40	12	7	* 443	- -	393	370	222	3	2	- -	1,460	1,252	57	94	2,310	8.4	25.0
102	917	Oct. 22, 1965	do.	11	.08	12	7	448	- -	407	350	212	2.9	< .4	- -	1,240	- -	58	94	2,000	8.3	25.3
201	1,107	Oct. 21, 1965	Kho	11	.08	6	4	361	- -	422	184	183	1.9	2.5	- -	960	- -	30	96	1,600	8.3	27.5
404	815	Oct. 22, 1965	Khe	10	- -	14	8	453	- -	404	368	220	2.9	< .4	- -	1,280	- -	68	94	2,050	8.5	24.0
404	815	May 11, 1966	do.	- -	.30	16	6	451	- -	403	372	231	2.2	< .4	- -	1,490	1,277	66	94	2,416	8.4	24.2
2/ 504	879	Apr. 8, 1963	do.	- -	.70	15	11	* 530	- -	421	465	261	2.9	2.5	- -	1,710	1,495	81	93	2,717	8.3	24.5
504	879	Oct. 22, 1965	do.	10	.12	16	9	520	- -	428	453	251	3	< .4	- -	1,470	- -	77	94	2,300	8.1	25.7
3/ 505	1,192	Jan. 18, 1967	Kho	- -	.24	6	5	362	- -	444	154	210	1.7	.4	- -	1,180	957	38	96	- -	8.3	26.3
703	1,001	Apr. 20, 1961	do.	- -	.64	8	5	425	- -	465	209	273	2	< .4	- -	1,311	1,151	40	96	2,185	7.9	28.9
703	1,001	Oct. 21, 1965	do.	9	- -	7	3	438	- -	412	209	267	2.3	< .4	- -	1,150	1,139	31	97	1,900	8.7	34.6
703	1,001	May 11, 1966	do.	- -	.26	8	4	421	- -	432	204	268	1.9	< .4	- -	1,350	1,119	34	96	2,176	8.5	30.0
704	1,081	Oct. 21, 1965	do.	11	.18	7	4	423	- -	444	205	262	2.3	< .4	- -	1,130	- -	34	96	1,900	8.3	31.7
705	1,001	Apr. 20, 1961	Kho	- -	1.04	6	4	404	- -	464	210	223	2.0	< .4	- -	1,212	1,078	32	96	2,020	8.1	30.8
705	1,001	May 11, 1966	do.	- -	.10	7	3	393	- -	426	199	219	2	< .4	- -	1,270	1,032	31	97	1,984	8.7	31.1
706	855	Oct. 21, 1965	Khe	8	- -	14	11	540	- -	426	473	277	3	< .4	- -	1,540	- -	79	94	2,450	8.5	26.4
706	855	May 11, 1966	do.	- -	.48	7	7	530	- -	351	464	288	2.5	< .4	- -	1,680	1,472	48	96	2,877	8.9	33.4
1/ 901	1,060	May 21, 1951	do.	12	.25	14	10	* 555	- -	428	507	282	3.6	1.5	0.68	1,600	- -	76	93	2,550	8.3	27.7
902	1,355	Feb. 22, 1954	Kho	32	.15	6	4	389	- -	451	205	209	1.6	< .4	- -	1,045	1,069	32	96	- -	8.2	29.7
902	1,355	Oct. 7, 1965	do.	- -	- -	6	4	385	- -	439	- -	200	2	< .4	- -	1,240	- -	33	96	1,890	8.3	29.4
902	1,355	Sept. 18, 1968	do.	14	.13	5	44	387	- -	440	200	223	2	< .4	- -	1,050	- -	29	97	1,720	8.2	31.7

See footnotes at end of table.

Table 5 -- Chemical Analyses of Water From Selected Wells -- Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
AX-40-54-401	1,657	July 14, 1965	Ktp	--	0.32	5	3	359	--	431	167	173	1.9	< .4	--	1,130	921	25	97	1,696	8.2	31.2
1/ 501	1,735	Jan. 9, 1943	do.	13	0	5.9	2.3	* 364	--	455	195	167	1.4	1.5	--	974	--	24	97	--	8.4	32.3
501	1,735	Apr. 5, 1965	Ktp	16	--	7	1	361	--	447	173	170	2.4	2	--	950	--	21	97	1,590	8.1	33.4
2/ 502	2,045	Mar. 3, 1969	do.	--	0	6	3	375	--	430	230	175	1.5	0	--	1,000	--	25	97	--	8.2	32.6
3/ 701	1,669	July 26, 1968	Kho	--	<.1	--	--	--	--	--	493	220	1.5	< .02	--	1,072	--	22	--	--	--	--
55-701	2,652	Mar. 9, 1961	do.	--	.48	6	2	323	--	494	176	69	2.4	< .4	--	852	822	23	97	1,420	7.8	29.3
59-102	772	June 10, 1941	Kgr, Ktp	4	.2	68	26	* 915	--	464	708	817	2.1	4.7	--	2,736	2,771	277	88	--	7.3	24.0
1/ 102	772	Sept. 26, 1941	do.	--	--	48	29	* 916	--	466	733	770	--	0	--	2,730	--	239	89	--	--	25.7
301	708	Sept. 18, 1968	Kgr, Kho	12	.13	81	72	1,170	--	472	1,340	900	4.9	5	--	3,820	--	497	84	5,200	7.5	22.8
701	640	do.	do.	12	<.02	66	60	640	--	444	1,020	296	5.3	6.5	--	2,320	--	411	77	3,230	7.7	13.7
60-302	956	Jan. 17, 1961	Kho	--	.40	8	6	490	--	405	255	316	1.8	< .4	--	1,434	1,276	45	96	2,390	8.5	31.8
302	956	Oct. 22, 1965	do.	10	--	7	5	461	--	437	200	320	2.7	< .4	--	1,230	--	38	96	2,100	8.6	32.3
4/ 501	979	Mar. 15, 1966	Khe	--	--	--	--	--	--	367	190	140	5	--	--	1,281	--	36	--	1,700	8.29	--
501	979	Mar. 16, 1966	do.	--	.10	7	6	414	--	486	353	125	5.7	< .4	--	1,400	1,150	43	96	2,144	8.3	27.7
2/ 601	965	May 1942	Ktp	7	.27	9.3	6.1	* 572	--	478	297	410	4.5	.0	--	1,580	1,542	48	96	--	--	36.1
1/ 601	965	Dec. 16, 1942	do.	12	.09	8.6	5	* 417	--	482	341	130	5.5	.0	--	1,157	--	42	96	--	8.3	27.9
1/ 601	965	May 25, 1954	do.	13	.16	8.6	5.3	* 415	--	489	339	125	6	.0	--	1,150	--	44	95	1,840	8.2	27.3
2/ 801	948	Apr. 12, 1942	Khe, Kho	17	.14	14	7.1	* 782	--	484	347	708	2.9	5	--	2,101	2,121	64	96	--	--	42.5
1/ 801	948	Nov. 9, 1942	do.	8.8	.10	15	8.7	* 760	--	470	336	695	3	3	--	2,061	--	74	96	--	7.8	38.4
801	948	Apr. 6, 1943	do.	11	.06	26	11	* 722	--	476	327	675	3.2	.7	--	2,053	2,010	110	93	--	7.9	29.9
1/ 801	948	May 25, 1954	do.	12	.04	9.3	5.5	* 368	--	443	299	113	4.4	.2	--	1,030	--	46	95	1,660	8.1	23.9
2/ 901	999	May 1942	do.	12	.14	14	7.5	* 579	--	439	283	470	2.9	.0	--	1,602	1,585	66	95	--	--	31.1
1/ 901	999	Nov. 4, 1942	do.	18	.10	16	7.1	* 571	--	424	296	460	2.5	.2	--	1,580	--	69	95	--	8.0	29.9
901	999	Apr. 6, 1943	do.	20	.08	23	10	* 518	--	433	297	398	2.8	.7	--	1,543	1,483	99	92	--	8.0	22.8
1/ 901	999	May 25, 1954	do.	12	.18	27	11	* 331	--	415	317	108	3.6	.0	--	1,010	--	112	86	1,620	7.8	13.6
2/ 902	965	Apr. 1942	do.	10	1.2	11	6.7	* 670	--	447	--	--	2.9	--	--	1,814	--	55	96	--	--	39.4
1/ 902	965	Nov. 4, 1942	do.	8.8	.12	12	8.6	* 579	--	468	487	300	3.5	2	--	1,632	--	66	95	--	8.3	31.1
902	965	Apr. 6, 1943	do.	14	.08	18	8	* 630	--	448	269	568	3	.7	--	1,780	1,731	78	95	--	8.0	31.1
1/ 902	965	May 25, 1954	do.	13	.04	11	6.2	* 441	--	463	370	166	5.2	.2	--	1,240	--	53	95	2,030	8.2	26.3
2/ 903	932	Apr. 1942	Khe, Kho	16	2.9	12	6.7	* 633	--	457	297	525	3.3	0.5	--	1,716	--	58	96	--	--	36.2
1/ 903	932	Nov. 4, 1942	do.	7.2	.06	13	8	* 601	--	446	305	482	3.2	.2	--	1,641	--	66	96	--	7.8	32.3

See footnotes at end of table.

Table 5 -- Chemical Analyses of Water From Selected Wells -- Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
AX-40-60-903	932	Apr. 6, 1943	Khe, Kho	14	0.08	16	7	* 570	- -	454	303	440	3.2	< 0.04	- -	1,646	1,577	69	95	- -	8.1	29.9
1/ 903	932	May 25, 1954	do.	12	.04	13	7.3	* 404	- -	457	365	122	5.2	.2	- -	1,150	- -	62	93	1,830	8.0	22.2
2/ 904	968	May 1942	do.	8	.26	12	7.4	* 716	- -	451	282	670	2.9	.5	- -	1,854	1,920	60	95	- -	- -	40.5
1/ 904	968	Nov. 4, 1942	do.	9.2	.08	18	11	* 627	- -	453	376	482	3.3	2.5	- -	1,752	- -	90	94	- -	8.2	28.7
904	968	Apr. 6, 1943	do.	16	.2	18	9	* 650	- -	448	276	596	2.8	.7	- -	1,838	1,789	82	95	- -	7.6	31.1
1/ 904	968	May 25, 1954	do.	13	.10	13	7.9	* 683	- -	436	286	628	3.6	.2	- -	1,850	- -	65	96	3,160	8.2	36.7
2/ 905	956	May 1942	do.	8	.09	12	6.7	* 644	- -	460	295	542	3.3	.2	- -	1,702	1,738	58	96	- -	- -	36.9
1/ 905	956	Nov. 4, 1942	do.	13	.12	12	6.3	* 632	- -	452	293	528	3.8	.2	- -	1,711	- -	56	96	- -	8.1	36.7
1/ 905	956	May 25, 1954	do.	13	.10	12	7.2	* 465	- -	510	425	135	7.0	.2	- -	1,320	- -	60	94	2,070	8.1	26.3
907	1,110	Apr. 11, 1966	Kho	- -	.64	10	9	620	- -	429	297	560	3.5	< .4	- -	1,880	1,711	62	96	3,280	8.2	34.1
3/ 61-101	1,351	Oct. 18, 1949	do.	13	.05	10	4.6	* 442	- -	410	215	290	- -	- -	- -	1,403	1,178	24	96	- -	8.25	29.1
101	1,351	Oct. 22, 1965	do.	11	.12	8	3	450	- -	440	210	288	2.4	< .4	- -	1,190	- -	35	97	1,960	8.3	34.4
105	1,080	Jan. 24, 1961	do.	- -	.82	6	3	430	- -	450	188	245	2	< .4	- -	1,188	1,096	30	97	1,980	8.1	35.3
105	1,080	Oct. 21, 1965	do.	9	.08	6	4	423	- -	421	198	241	2.4	< .4	- -	1,110	1,091	31	97	1,850	8.7	32.3
106	988	do.	Ktp	9	- -	7	5	450	- -	417	216	284	2.5	.5	- -	1,190	1,179	38	96	1,950	8.6	31.6
106	988	May 11, 1966	do.	- -	1.36	8	4	437	- -	409	207	288	2	< .4	- -	1,370	- -	40	96	2,304	8.7	31.2
301	1,487	Jan. 21, 1952	do.	- -	- -	12	14	* 423	- -	488	219	269	- -	- -	- -	1,425	1,177	89	91	- -	- -	19.6
301	1,487	Oct. 21, 1965	do.	13	.36	9	4	448	- -	431	200	301	2.1	< .4	- -	1,190	- -	39	96	1,990	8.3	31.4
401	1,190	Apr. 28, 1949	Kho	16	.48	29	8	* 466	- -	445	257	344	2.2	< .4	- -	1,395	1,342	106	91	- -	7.8	19.7
1/ 402	1,190	Sept. 26, 1941	Ktp	- -	- -	- -	- -	* 472	- -	466	301	302	- -	2	- -	1,296	- -	96	- -	- -	- -	- -
402	1,190	Sept. 11, 1964	do.	- -	<.02	9	4	462	- -	434	233	308	2.8	< .4	- -	1,460	1,232	38	96	2,354	8.2	32.4
1/ 403	1,172	Jan. 5, 1943	do.	8.2	.0	17	11	545	11	545	558	172	6	1.5	- -	1,598	- -	88	93	- -	8.4	25.2
403	1,172	Mar. 30, 1943	do.	16	.24	19	12	* 481	- -	451	260	330	2.2	.7	- -	1,327	1,343	60	92	- -	8.2	22.5
2/ 403	1,172	June 24, 1943	do.	12	.06	13	7.6	* 519	- -	490	376	275	4	.0	- -	1,448	- -	64	95	- -	7.9	28.2
501	1,262	May 4, 1959	Kho	- -	.36	9	3	425	- -	442	220	308	1.1	.4	- -	1,554	1,184	36	96	2,590	8.0	31.3
8/ 503	1,365	- -	Kho	100	- -	11	6	* 439	- -	- -	225	291	- -	- -	- -	1,226	- -	52	95	- -	8.0	26.5
8/ 504	1,256	Feb. 9, 1949	do.	10	0.11	14	5	* 459	- -	439	244	312	- -	- -	- -	1,268	- -	55	95	- -	7.9	26.6
1/ 508	1,281	Feb. 29, 1952	do.	14	.01	6.8	4	* 438	- -	442	221	268	2.2	3.5	1.1	1,180	- -	34	97	1,970	8.0	32.8
9/ 509	1,261	Mar. 21, 1952	do.	9	.35	7.2	3.5	* 433.6	- -	429.4	217	262	- -	- -	- -	1,425.6	1,144	32	97	- -	8.35	33.1
510	1,388	Jan. 25, 1965	do.	6	- -	12	7	570	- -	395	243	520	1.8	< 0.4	- -	1,550	- -	59	95	2,600	8.2	32.2
901	1,850	Aug. 17, 1964	do.	- -	.76	†11	- -	443	- -	387	227	274	2.6	< .4	- -	1,370	1,148	29	- -	2,200	9.0	- -
901	1,850	Feb. 3, 1966	do.	- -	2.2	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
62-101	2,136	Sept. 22, 1952	do.	20	.04	18	14	* 387	- -	415	247	231	1	< .4	- -	1,072	1,127	103	89	- -	8.3	16.7

See footnotes at end of table.

Table 5 -- Chemical Analyses of Water From Selected Wells -- Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
AX-40-62-102	1,822	Jan. 31, 1966	Kho	11	--	9	3	412	--	422	242	245	2	< 0.4	--	1,130	--	37	96	1,700	8.2	30.4
1/ 401	800	Jan. 3, 1944	Kf	--	--	--	--	--	--	420	250	224	--	--	--	--	--	--	--	--	--	--
1/ 401	1,500	do.	Kgr	--	--	--	--	--	--	440	250	242	--	--	--	--	--	--	--	--	--	--
1/ 401	1,900	do.	Khe, Kpe	--	--	--	--	--	--	458	250	246	--	--	--	--	--	--	--	--	--	--
1/ 401	2,000	do.	Kho	14	.07	12	4.5	* 440	--	450	269	248	2	1.8	--	1,210	--	48	95	--	8.0	27.3
1/ 401	2,234	Jan. 8, 1944	do.	8.5	.68	24	4.4	* 394	--	409	284	216	--	.2	--	1,130	--	78	92	1,880	--	19.5
401	2,323	Feb. 17, 1944	do.	18	.64	12	3	* 437	--	433	269	254	1.8	< .4	--	1,185	1,208	43	96	--	8.0	28.8
1/ 401	2,323	July 24, 1944	do.	--	--	--	--	--	--	300	220	212	--	--	--	--	--	--	--	--	--	--
1/ 401	2,323	July 26, 1944	do.	--	--	--	--	--	--	442	260	252	--	--	--	--	--	--	--	--	--	--
501	2,236	Sept. 7, 1966	do.	--	.52	14	1	443	--	454	260	250	2.6	< .4	--	1,430	1,194	40	96	--	8.3	30.6
801	2,366	May 9, 1960	do.	--	.22	6	3	376	--	433	190	208	1.8	< .4	--	1,088	998	26	97	1,814	8.1	30.9
1/ 801	2,366	Apr. 21, 1961	do.	16	.05	5.8	2.2	* 382	--	432	211	205	1.8	1.2	.80	1,040	--	24	97	1,740	8.1	33.9
63-501	3,200	Mar. 27, 1965	do.	--	.68	t10	--	368	--	492	213	125	3.2	< .4	--	1,210	962	24	--	1,744	8.2	--
1/ 58-03-401	450	Oct. 28, 1942	Kgr, Khe	--	--	20	19	* 402	--	519	319	170	--	6	--	1,192	--	128	87	--	--	15.5
901	857	Sept. 17, 1968	Ktp	13	.04	19	11	235	--	386	126	124	2.5	< .4	--	720	--	92	85	1,170	7.7	10.6
04-103	767	Jan. 31, 1966	Kgr, Khe	8	--	24	21	445	--	439	560	124	4.5	< .4	--	1,400	--	146	87	2,000	7.9	16.0
103	767	do.	do.	9	--	23	21	428	--	429	540	124	3.9	< .4	--	1,360	--	143	87	1,900	8.1	15.5
4/ 602	105	Mar. 5, 1968	Kea	--	0	106	25	5	--	353	16	53	1	19	--	400	--	372	3	--	7.0	.11
4/ 05-202	1,740	Sept. 3, 1968	Kho	--	0	10	4	380	--	475	260	140	2.5	0	--	1,100	1,031	42	95	--	7.8	25.0
1/ 402	1,827	Mar. 31, 1961	Kho	14	--	7.8	4.6	* 253	--	392	142	79	3	0.0	--	696	--	38	93	1,150	7.8	17.8
403	1,630	Sept. 17, 1968	Khe	15	0.46	8	5	227	--	387	104	79	2.8	< .4	--	630	--	40	92	1,030	8.2	15.4
10/ 901	1,993	Apr. 7, 1939	do.	18	.2	59	36	* 703	--	--	980	353	4.9	--	--	2,530	--	305	84	--	8.1	17.8
901	1,993	May 18, 1942	do.	40	.7	78	41	* 636	--	421	985	344	4	4.4	--	2,413	2,339	303	78	--	8.0	14.1
1/ 901	1,993	Apr. 22, 1943	do.	10	.86	60	42	* 725	--	410	978	362	5.4	9.4	--	2,395	--	322	83	--	7.8	17.6
901	1,993	Feb. 12, 1964	do.	--	2.5	71	45	760	--	425	1,110	396	5.6	< .4	--	2,810	2,600	364	82	4,966	7.5	17.4
902	2,420	do.	Kho	--	.13	12	6	450	--	477	299	235	4	< .4	--	1,480	1,241	56	95	2,343	8.1	26.5
06-102	2,210	Oct. 8, 1955	do.	30	.15	8	4	443	--	451	235	273	2	< .4	--	1,248	1,217	37	96	--	8.2	31.6
102	2,210	Apr. 1956	do.	--	.33	9	4	* 452	--	375	290	280	2	.4	--	1,214	--	39	96	--	8.5	31.7
2/ 07-301	3,584	Apr. 8, 1957	do.	16	.02	11.2	3.4	* 403	--	492	290	118	--	--	--	1,248	1,084	40	95	1,750	8.1	27.0
1/ 301	3,584	Apr. 15, 1957	do.	--	--	13	1	* 334	--	504	159	128	--	--	--	1,078	883	35	95	--	--	23.8
1/ 301	3,584	Nov. 9, 1960	do.	23	--	10	2.6	* 395	--	492	304	118	2.8	.0	--	1,100	--	36	96	1,810	8.0	28.6
701	3,178	Nov. 19, 1940	do.	24	.2	10	3	* 399	--	500	288	117	2.4	< .4	--	1,072	1,090	38	96	--	8.6	28.0

See footnotes at end of table.

Table 5.-- Chemical Analyses of Water From Selected Wells -- Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
1/ AX-58-07-701	3,178	Apr. 1943	Kho	20	.04	9.1	2.9	* 387	- -	511	277	110	2.8	0	- -	1,060	- -	34	96	- -	8.4	28.5
701	3,178	Nov. 3, 1961	do.	- -	.12	24	10	460	- -	476	398	150	2.8	< .4	- -	1,560	1,279	101	91	2,600	8.2	20.0

* Sodium and potassium calculated as sodium (Na)
† Calcium and magnesium calculated as calcium (Ca)

LABORATORY CONDUCTING ANALYSIS:

1/ U.S. Geological Survey Laboratory
2/ Laboratory unknown
3/ Pope Testing Laboratories
4/ Southwestern Analytical Chemicals, Inc.
5/ Forrest and Cotton, Inc.
6/ North Texas State University Water Research Laboratory
7/ Houston Laboratories Analytical and Consulting Chemists
8/ Trinity Testing Laboratories
9/ Curtis Laboratories
10/ International Filter Co.

EXPLANATION

Public supply well

Industrial well

Irrigation well

Domestic or livestock well

Oil or gas well

Unused or abandoned well

Solid circle indicates flowing well

501

Line above well number indicates chemical analysis given in Table 5

Location of Selected Water, Oil, and Gas Wells in Bell County

BOSQUE COUNTY

Table 1--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe Peak Formation; Khu, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	BB-32-52-501	Houston Ranch	Morris Pollock	--	600	4	--	Ktp	575	Flowed 2.05 4.85	Mar. 29, 1960 Mar. 23, 1966 Mar. 20, 1967	Sub, E 5	S	Estimated yield 100 gpm.
	701	C. M. Dale	Jess Hickey Oil Corp.	1954	750	5	--	do.	725	--	--	C, G	D, S	Well was originally drilled as oil test to 2,425 ft and plugged back to 750 ft. 2/
	58-401	Flat Top Ranch	--	--	--	4	--	Kp	1,070	37.22 36.60	Mar. 22, 1966 Mar. 20, 1969	C, W	S	Texas Water Development Board observation well. 4/
	502	do.	C. Glenn Wallen and Son	1940	515	6	--	Khu	990	220 253.60	Mar. 22, 1966 Mar. 20, 1969	Sub, E 3	S	Pump set at 400 ft. Texas Water Development Board observation well. 1/ 4/
*	59-401	City of Walnut Springs	D. Montgomery	1928	540	6	--	do.	912	140 211.4	Feb. 10, 1943 Mar. 15, 1968	T, E 15	P	Pump set at 300 ft. Reported yield 100 gpm in 1961. Texas Water Development Board observation well. 4/
*	402	do.	J. L. Myers Sons	1949	611	8 6	224 611	do.	980	--	--	T, E 20	P	Perforated from 541 to 611 ft. Pump set at 350 ft. Reported yield 135 gpm. Temp. 74°F. 1/
*	501	Earl E. Morrison	Morris Pollock	1953	146	5	145	Kp	850	82 88.70	May 4, 1960 May 20, 1969	C, E 1/2	D, S	Perforated. Texas Water Development Board observation well. 4/
	502	James Smith and Vernon Smith	Iredell Drilling	1966	630	14	577	Khe	830	143 202.3	Aug. 22, 1966 Aug. 24, 1966	T, E 100	Irr	Slotted from 447 to 577 ft. Pump set at 340 ft. 2/
	60-601	J. B. Johnson	Frank Baker Place	1945	550	8	--	do.	579	Flowed Flowed	Mar. 29, 1960 Mar. 23, 1966	J, Sub, E 15	P	Pumps set at 60 and 50 ft. Well supplies Kopperl, Texas.
*	602	Kopperl Deep Well Co.	-- Sides	1927	760	5 4	260 760	Ktp	577	+ 12 9.20	Feb. 10, 1943 Mar. 7, 1969	N	N	Reported flow 10 gpm in 1943. Texas Water Development Board observation well. Abandoned. 4/
*	701	City of Morgan	James F. Smith	1906	675	8	--	Khe	790	98 162.95	Feb. 10, 1943 Mar. 20, 1969	Sub, E	P	Pump set at 220 ft. Reported yield 75 gpm. Texas Water Development Board observation well. 4/
*	702	do.	--	1902	760	--	--	Ktp	795	70	Feb. 10, 1943	C, G 5	N	Pump set at 110 ft. Reported yield 300 gpm in 1943. Well flowed 30 gpm when drilled. Originally drilled as oil test to 2,100 ft and plugged back to 760 ft. Abandoned.
	61-102	U.S. Army Corps of Engineers	Ward and Ward Drilling Co.	1960	583	--	573	Kgr	570	+ + 13.95	Apr. 6, 1960 Apr. 7, 1960 May 20, 1968	J, E	P	Screened from 573 to 583 ft. Pumping level 21 ft at 320 gpm on Apr. 6, 1960. Pump set at 84 ft. Cemented from 573 ft to surface. 1/
	401	do.	do.	1960	168	--	168	Kp	565	28 28.05	Apr. 1, 1960 June 7, 1968	Sub, E 1	P	Screened from 158 to 168 ft. Pumping level 51 ft at 315 gpm on Apr. 1, 1960. Pump set at 84 ft. Reported yield 10 gpm. 1/
*	701	Bogey Estill	Rufus Hampton Smith	1955	825	7 4	200 825	Ktp	577	+ 19.65	Apr. 27, 1960 May 20, 1968	--	D, S	Perforated from 680 to 780 ft. Estimated yield 65 gpm. Temp. 80°F. 1/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	BB-32-61-703	Lakeside Water Supply District	J. L. Myers Sons	1964	746	12 8 6	7 630 745	Khe	620	25 39.40	Feb. 1964 Mar. 7, 1969	Sub, E 35	P	Slotted from 630 to 710 ft. Pumping level 467 ft at 220 gpm in Feb. 1964. Pump set at 540 ft. Reported yield 175 gpm. Cemented from 630 ft to surface. Texas Water Development Board observation well. 1/ 4/
	704	do.	do.	1950	764	6 4	261 764	do.	614	--	--	T, E 7-1/2	N	Perforated from 606 to 764 ft. 1/
	705	do.	C. M. Stoner Drilling Co.	1968	757	8 7	680 757	do.	640	80	July 29, 1968	Sub, E 30	P	Slotted from 680 to 710, 722 to 734, and 740 to 750 ft. Pumping level 465 ft at 200 gpm on July 29, 1968. Pump set at 500 ft. Cemented from 680 ft to surface. 1/ 2/
	706	Bestview Water Association	Leon Drilling Co.	1962	222	4	222	Kp	624	100	Oct. 28, 1962	Sub, E 1-1/2	P	Slotted from 190 to 220 ft. Pumping level 125 ft at 22 gpm on Oct. 28, 1962. Pump set at 150 ft. Cemented from 165 to 180 ft. 1/
*	707	U.S. Army Corps of Engineers	--	1962	813	4 3	783 813	Khe	705	113 108 131.35	May 28, 1962 May 30, 1962 May 20, 1968	Sub, E	P	Completed from 783 to 813 ft. Pumping level 243 ft at 13 gpm on May 30, 1962. Cemented from 783 ft to surface. Well was drilled to 850 ft and plugged back to 813 ft. 1/
	801	do.	Ward and Ward Drilling Co.	1960	218	--	218	Kp	566	32 47.00	Apr. 5, 1960 Dec. 4, 1968	Sub, E	P	Screened from 208 to 218 ft. Pumping level 104 ft at 32 gpm on Apr. 5, 1960. Pump set at 126 ft. Cemented from 208 ft to surface. 1/
	40-01-302	O. H. McGavock	Iredell Drilling	1964	290	14 10	50 290	Khe	900	120.76 126.10	Mar. 21, 1966 Mar. 19, 1969	T, E	Irr	Completed from 200 to 290 ft. Pump set at 240 ft. Texas Water Development Board observation well. 1/ 4/
	303	H. F. Myers	do.	1964	315	14 10 8	18 270 315	do.	905	105	Sept. 25, 1964	T, G	Irr	Completed from 270 to 315 ft. Pump set at 250 ft. Reported yield 600 gpm. 1/
*	02-101	City of Iredell	Rufus Hampton Smith	1945	325	7 5	277 325	do.	900	65	Mar. 8, 1960	T, E 5	P	Completed from 265 to 325 ft. Pump set at 200 ft. Reported yield 175 gpm. 1/
*	102	do.	--	1900	335	6	--	do.	902	--	--	C, E 1-1/2	P	Pump set at 180 ft. 1/
	104	B. F. Strong	Iredell Drilling	1966	410	14 10	325 410	do.	895	120.99	Apr. 1, 1966	T, Ng	Irr	Completed from 225 to 325 and 370 to 410 ft. Pump set at 270 ft. Gravel packed. 1/ 2/
*	105	City of Iredell	do.	1966	326	12 8 5	26 270 326	do.	900	110	Oct. 15, 1966	Sub, E 10	P	Slotted from 270 to 326 ft. Pump set at 270 ft. Estimated yield 100 gpm. Cemented from 270 ft to surface. Temp. 72°F. 1/
	106	Elliott Ensminger	do.	1965	425	12 10	40 425	do.	1,000	200	1965	T, G 50	Irr	Completed from 300 to 425 ft. Pumping level 250 ft at 350 gpm. Pump set at 270 ft. 1/
	107	R. S. Echols	Joe Gandy	1901	257	5	--	do.	900	100	Feb. 10, 1943	C, E 3	N	Pump set at 225 ft. Reported yield 2 gpm.
	03-202	E. R. Hatfield	Rufus Hampton Smith	1961	175	--	--	Kp	885	130	June 22, 1961	--	D, S	2/
	402	Eugene Allen	Clarence Erickson and Rufus Hampton Smith	1956	560	--	--	Kgr	1,130	--	--	--	D, S	2/
*	601	City of Meridian	J. L. Myers Sons	1940	759	10 8	649 759	Kho	760	65 121.25	Mar. 1949 Mar. 14, 1968	Sub, E 50	P	Completed from 647 to 759 ft. Pump set at 300 ft. Reported yield 350 gpm. Temp. 69°F. Texas Water Development Board observation well. 1/ 4/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* BB-40-03-6D2	City of Meridian	Rufus Hampton Smith	1923	725	8 6	-- --	Ktp	761	17 45 55 65	1923 Mar. 6, 1938 1940 Mar. 17, 1949	T, E 25	N	Pump set at 120 ft.
* 603	do.	C. M. Stoner Drilling Co.	1963	838	8	838	Kho	830	183 174.0 194.34	June 1963 Mar. 15, 1965 Mar. 21, 1966	Sub, E	P	Perforated from 735 to 838 ft. Pumping level 325 ft at 346 gpm on Mar. 15, 1965. Pump set at 400 ft. Cemented from 838 ft to surface. 1/ 2/ 3/
* 802	Texas Parks and Wildlife Department	Watts Drilling Co.	1963	910	4 3	720 910	do.	1,030	350	July 1963	Sub, E 5	P	Perforated from 720 to 910 ft. Pumping level 378 ft at 20 gpm in July 1963. Pump set at 478 ft. Reported yield 22 gpm. Cemented from 720 ft to surface. 1/
* 901	Texas Highway Department	do.	1962	570	7 5	535 570	Khe	775	110 108.50	July 19, 1962 Jan. 12, 1965	Sub, E 7-1/2	Ind	Slotted from 535 to 570 ft. Pumping level 122 ft at 55 gpm on July 19, 1962. Pump set at 254 ft. Cemented from 535 ft to surface. 1/
04-401	C. G. Golden	--	--	347	5	347	Kp	965	98 122.60 308.64	May 5, 1960 Mar. 22, 1966 Mar. 17, 1967	C, W	D, S	Perforated from 287 to 347 ft. Pump set at 344 ft.
* 402	E. K. Bowman	Rufus Hampton Smith	1961	240	--	--	do.	848	170 171	May 16, 1961 Sept. 19, 1968	Sub, E	D, S	2/
403	W. P. Powell Ranch	J. L. Myers Sons	1954	936	8 5	12 784	Khe, Kho	934	200	May 10, 1954	C, W	S	Open hole completion from 784 to 936 ft. Cemented from 12 ft to surface. 1/ 2/
801	do.	Hervey Meadows and Son Well Driller	1966	1,120	5	1,120	Kho	940	230.3 234.80	Jan. 10, 1967 Mar. 20, 1969	N	N	Perforated from 1,080 to 1,120 ft. Texas Water Development Board observation well. 1/ 4/
802	do.	J. L. Myers Sons	1954	1,130	8 5	9 1,121	Kgr, Kfp	940	--	--	C, W	D, S	Perforated. Pump set at 400 ft. Cemented from 9 ft to surface. 1/ 2/
803	do.	do.	1954	971	5	954	do.	928	231	May 29, 1964	C, W	S	Perforated from 684 to 954 ft. Cemented from 684 ft to surface. 1/ 2/
* 05-301	U.S. Army Corps of Engineers	Watts Drilling Co.	1963	977	4 2	735 957	Kho	540	7	Mar. 15, 1963	Sub, E 3/4	P	Screened from 957 to 967 ft. Pumping level 20 ft at 600 gpm on Mar. 15, 1963. Cemented from 735 ft to surface. 1/ 2/
401	James Walker	Iredell Drilling	1964	691	12 8	300 691	Khe	595	36	Oct. 15, 1964	T, G 50	Irr	Pump set at 350 ft. Reported yield 700 gpm. 1/
* 701	Ronnie Jones	J. L. Myers Sons	1954	1,107	5 3	1,030 1,107	Kho	800	152 249.30	Mar. 12, 1954 Mar. 20, 1969	Sub, E	D, S	Perforated from 1,030 to 1,093 ft. Cemented. Texas Water Development Board observation well. 1/ 2/ 4/
704	W. P. Powell Ranch	J. L. Myers Sons	1954	1,187	8 5	10 1,160	Kgr, Kfp	830	--	--	C, W	S	Perforated from 765 to 1,160 ft. Cemented from 10 ft to surface. 1/ 2/
903	J. W. Murtishaw	C. M. Stoner Drilling Co.	1958	1,135	5	1,135	Ktp	590	55 83.25	Feb. 1958 Mar. 20, 1967	Sub, E 5	P	Pump set at 230 ft. Reported yield 120 gpm. Cemented. Texas Water Development Board observation well. 4/
904	U.S. Army Corps of Engineers	J. E. Cass	1911	860	5	860	Khe	560	38.38 50.45	Mar. 23, 1966 Mar. 7, 1969	Sub, E	P	Slotted from 800 to 860 ft. Cemented from 800 ft to surface. Texas Water Development Board observation well. 4/
905	do.	Watts Drilling Co.	1966	1,100	4	1,080	Kho	560	39 46.40	Dec. 16, 1966 June 15, 1967	Sub, E 2	P	Screened from 1,068 to 1,080 ft. Pump set at 100 ft. Estimated yield 15 gpm. Cemented from 1,068 ft to surface. 1/ 2/
* 10-101	Jerry Mathews	R. A. Adams and Son	1944	330	4	330	Kp	1,225	275	Apr. 19, 1960	C, E 1-1/2	D, S	Perforated. Pump set at 319 ft.

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* BB-40-10-801	City of Cranfills Gap	E. E. Erickson	1934	549	6 3	500 --	Khe	1,010	346 298.10	Mar. 10, 1962 Mar. 19, 1969	Sub, E 3	P	Pump set at 413 ft. Reported yield 20 gpm. Texas Water Development Board observation well. 4/
* 802	do.	R. A. Adams and Son	1944	627	8 7 5	223 550 595	do.	1,080	--	--	C, E	P	Pump set at 400 ft. Temp. 73°F. 1/
* 11-401	J. Bruce Parks	Clarence Erickson	1964	478	7 4	111 478	do.	830	130 121.80	Mar. 26, 1964 Mar. 19, 1969	Sub, E 3/4	S	Perforated from 435 to 478 ft. Pumping level 170 ft at 10 gpm on Mar. 26, 1964. Cemented from 30 ft to surface. Temp. 70°F. Texas Water Development Board observation well. 1/ 4/
* 402	Clarence Fields	do.	1964	110	4	110	Kp	780	40 36.05	Sept. 20, 1964 Dec. 9, 1968	C, E 3/3	D, S	Slotted from 60 to 90 ft. Pump set at 84 ft. Cemented. Temp. 56°F. 1/
* 12-101	Mildred Hogstel	do.	1952	130	4	130	do.	720	80 62	1952 Apr. 6, 1960	C, S	D, S	Completed from 108 to 128 ft. Pump set at 115 ft. Reported yield 20 gpm. 1/
* 301	N. P. Powell Ranch	do.	1956	433	6	433	do.	870	262 272.60	Mar. 30, 1960 Dec. 9, 1968	C, E	D, S	Perforated.
* 703	City of Clifton	J. L. Myers Sons	1963	942	13 8 6	3 824 934	Kho	850	170 288.0	July 19, 1963 July 30, 1968	T, E	P	Slotted from 824 to 934 ft. Pumping level 360 ft at 300 gpm on July 20, 1963. Reported yield 285 gpm. Cemented from 824 ft to surface. 1/
704	W. L. Gauntt	Frank Baker Place	1964	812	5 --	780 812	Khe	890	290	June 30, 1964	N	P	Completed from 780 to 812 ft. 1/
* 801	Erwin Wiederanders	-- Silius	1910	600	6	150	do.	621	60	Sept. 28, 1964	T, E 3	P	Open hole completion from 150 to 600 ft. Pumping level 80 ft at 60 gpm. Pump set at 80 ft.
* 802	City of Clifton	E. E. Erickson	1906	646	7 5	158 586	do.	665	41	Sept. 17, 1948	T, E 7-1/2	N	Completed from 526 to 586 ft. Pump set at 80 ft. Reported yield 220 gpm. 1/
* 803	do.	Clarence Erickson	1945	698	8 7 4	568 -- 698	Khe, Kpe	665	27 70 66.48	Sept. 17, 1948 Feb. 25, 1960 Feb. 10, 1965	T, E 25	P	Pumping level 168 ft at 242 gpm on Feb. 10, 1965. Reported yield 250 gpm. 1/ 3/
804	do.	do.	1954	702	10 8 6	140 622 702	do.	665	70	Feb. 25, 1960	T, E 25	N	Perforated from 570 to 622 and 673 to 702 ft. Pump set at 170 ft. Cemented. 1/
* 805	do.	E. E. Erickson	1915	787	10 8 6	158 645 785	Kpe, Kho	665	27 95.50	Sept. 17, 1948 Mar. 19, 1969	A, E 20	P	Completed from 705 to 785 ft. Pumping level 89 ft at 225 gpm on Feb. 10, 1965. Pump set at 240 ft. Reported yield 125 gpm. Texas Water Development Board observation well. 1/ 4/
* 13-301	Lake Whitney Enterprises	J. L. Myers Sons	1951	1,173	8 5	388 1,173	Kho	575	+	July 28, 1951	Sub, E 20	P	Perforated from 1,055 to 1,173 ft. Cemented from 1,055 ft to surface. 1/
* 303	do.	do.	1957	1,142	10 7 5	3 501 1,142	do.	600	12	May 8, 1957	T, E 15	P	Perforated from 1,077 to 1,142 ft. Reported yield 150 gpm. Cemented from 1,077 ft to surface. 1/
* 801	A. R. Bearden	Frank Baker Place	1965	1,000	5 4	695 950	Khe	760	210	Jan. 3, 1967	Sub, E 2	D, S	Open hole completion from 950 to 1,000 ft. Pump set at 300 ft. Cemented from 950 ft to surface. 1/
* 14-501	Travelers Insurance Co.	--	1896	1,300	--	--	Ktp	503	--	--	J, E	P, S	Pump set at 75 ft. Reported yield 50 gpm.
* 508	G. J. Roberts	Barrett and Hill	1966	1,262	5 4	401 1,241	Khe	500	5.90 16.60	Mar. 23, 1966 Mar. 20, 1969	Sub, E 5	S	Completed from 970 to 1,000 ft. Pump set at 386 ft. Texas Water Development Board observation well. 4/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* BB-40-14-701	B. S. Dorman	--	1945	450	6	--	Kp	630	123 126.55	Apr. 6, 1960 Apr. 20, 1967	C, W	N	Open hole completion 30 to 450 ft. Texas Water Development Board observation well. Abandoned. 4/
* 702	do.	Frank Baker Place	1958	1,010	5	968	Khe	632	108.00 157.20	Apr. 6, 1960 Mar. 20, 1969	Sub, E 1-1/2	D, S	Open hole completion from 968 to 1,010 ft. Pump set at 290 ft. Texas Water Development Board observation well. 4/
18-303	Artesian Water Co.	J. L. Myers Sons	1956	575	7 5	537 575	do.	920	--	--	Sub, E	D, S	Pump set at 300 ft. Reported yield 25 gpm. Cemented. 1/
* 19-201	O. E. Pierson	Clarence Erickson	1934	122	5	100	Kp	822	79 71.80	Apr. 19, 1960 Mar. 19, 1969	C, W	D, S	Pump set at 99 ft. Texas Water Development Board observation well. 4/
402	Mrs. George Adams	C. M. Stoner Drilling Co.	1963	855	7	855	Khe, Kpe, Kho	993	350 350.15	Oct. 13, 1963 Dec. 28, 1967	Sub, E	S	Gun perforation with 45 shots 680 to 840 ft. Cemented from 855 ft to surface. 1/ 2/
20-301	Charlie Thiele	Clarence Erickson	1947	650	7 5	-- 650	Khe	620	32 79.02	May 6, 1960 Mar. 19, 1969	J, E	D, S	Texas Water Development Board observation well. 4/
303	A. L. Haster	Frank Baker Place	1964	815	5	776	do.	770	200	Feb. 29, 1964	Sub, E 5	D, S	Open hole completion from 776 to 815 ft. Cemented. 1/
602	H. K. Prosser	do.	1964	715	5 --	683 715	do.	638	95 110.58	Oct. 6, 1964 Mar. 14, 1968	Sub, E	D, S	Completed from 683 to 715 ft. Cemented from 683 ft to surface. Texas Water Development Board observation well. 4/
603	J. B. Gilbreath	Humble Oil and Refining Co.	1930	--	6	--	Ktp	627	66.1	Jan. 11, 1965	Sub, E 3	Ind	Pump set at 300 ft. Cemented.
* 703	Mosheim Water Supply Corp.	Hervey Meadows and Son Well Driller	1966	856	7 5	620 856	Khe	925	374.45	May 20, 1966	Sub, E 5	P	Perforated from 816 to 856 ft. Pumping level 410 ft at 50 gpm. Pump set at 500 ft. Cemented from 310 ft to surface. 1/ 2/
901	Fred Billings	Frank Baker Place	1965	310	7 5	17 208	Kp, Kgr	637	50 47.90	Sept. 3, 1965 Dec. 9, 1968	J, E	D, S	Perforated from 188 to 208 ft. Open hole completion from 208 to 310 ft. 1/
* 21-202	Edwin McMillan	do.	1965	327	7 5	20 327	Kp	662	75 76.90	Jan. 28, 1965 Dec. 6, 1968	J, E 1/4	D, S	Reported yield 10 gpm. Temp. 62°F. 1/
* 701	City of Valley Mills	--	1923	962	8 6	-- --	Ktp	610	+ 8 113.20	1941 Mar. 20, 1969	T, E 15	P	Pumping level 132 ft at 220 gpm on Jan. 11, 1965. Pump set at 180 ft. Reported yield 210 gpm. Temp. 80°F. Texas Water Development Board observation well. 3/ 4/
* 702	do.	Frank Baker Place	1955	761	8 7 5	252 649 761	Khe	611	46 94.80	Aug. 15, 1955 Mar. 20, 1969	T, E 15	P	Completed from 701 to 761 ft. Reported yield 160 gpm. Cemented. Texas Water Development Board observation well. 1/ 4/
22-101	P. D. Mayfield	do.	1948	400	8	10	Kf, Kp	520	29 37.50	Apr. 26, 1960 Dec. 5, 1968	C, E 1	N	Open hole completion from 10 to 400 ft.

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I.
4/ For water-level measurements, see Table 4.

BOSQUE COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
BB-32-58-301	American Liberty Oil Co.	Elmer Smith No. 1	1950	5,855	1,122	E
40-02-103	do.	Clanton No. 1	1949	4,468	980	E
701	American Republic Corp.	F. T. Shaffer No. 1	1950	5,246	1,136	E
10-102	Shell Oil Co.	Mathews No. 1	1965	840	1,160	E
12-403	do.	Ellie Moore No. 1	1966	675	700	E
404	do.	Ellie Moore No. 2	1966	701	729	E
13-302	SouthLand Oils and American Liberty Co.	R. T. Greenwade No. 1	1949	7,240	664	E
20-702	O. C. Proffitt	J. W. Henry No. 1	1953	6,222	933	E
21-101	American Liberty Oil Co.	Herbert Reichert No. 1	1948	7,706	850	E

Table 3.—Drillers' Logs of Selected Wells

Well BB-32-58-502

Owner: Flat Top Ranch
Driller: C. Glenn Wallen and Son

	THICKNESS (FEET)	DEPTH (FEET)
Gray lime	30	30
Blue lime	50	80
Blue sandy shale	20	100
Hard sand rock, water 8 gpm	15	115
Hard blue shale	35	150
Hard blue sand lime	50	200
Gray hard lime	2	202
Hard gray sandy lime	225	427
Soft blue shale	20	447
Coarse sand (water)	68	515

Well BB-32-59-402

Owner: City of Walnut Springs
Driller: J. L. Myers Sons

Rock	131	131
Sand	15	146
Rock	22	168
Sand	12	180
Rock	14	194
Green putty sand	26	220
Chalk rock	16	236
Lime	248	484
Shale	8	492
Sandy lime	14	506
Sandy shale	7	513
Sand	12	525
Shale	15	540
Sand	46	586
Gravel	24	610
Rock	1	611

Well BB-32-61-102

Owner: U.S. Army Corps of Engineers
Driller: Ward and Ward Drilling Co.

Clay	10	10
Gravel	8	18
Rock	40	58
Sand	14	72

Well BB-32-61-102—Continued

Shale	37	109
Sand	11	120
Shale	10	130
Paluxy sand	10	140
Rock	325	465
Shale	7	472
Rock	53	525
Glen Rose sand	22	547
Rock	14	561
Water sand	22	583

Well BB-32-61-401

Owner: U.S. Army Corps of Engineers
Driller: Ward and Ward Drilling Co.

Surface soil	22	22
Sandy clay and gravel	25	47
Rock	26	73
Shale	47	120
Upper Paluxy sand	16	136
Shale	22	158
Lower Paluxy sand	10	168

Well BB-32-61-701

Owner: Bogey Estill
Driller: Rufus Hampton Smith

Gravel	20	20
Blue shale	10	30
White rock	120	150
Blue shale	15	165
Paluxy sand	15	180
Glen Rose lime with streaks of shale and lime	340	520
First Trinity	50	570
Red bed	110	680
Second Trinity	100	780
Red and blue shale	45	825

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

Well BB-32-61-703

Owner: Lakeside Water Supply District
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Lime and clay	6	6
Broken lime	136	142
Shale	18	160
Sand	48	208
Lime	381	589
Lime and shale	31	620
Sand	13	633
Broken sand	8	641
Sand	19	660
Broken sand	6	666
Sand	24	690
Broken sand	32	722
Red bed	24	746

Well BB-32-61-704

Owner: Lakeside Water Supply District
Driller: J. L. Myers Sons

Surface soil	2	2
Rock	37	39
Broken lime and shale	51	90
Rock	40	130
Shale	54	184
Sand	16	200
Rock	414	614
Sand	120	734
Lime and shale	30	764

Well BB-32-61-705

Owner: Lakeside Water Supply District
Driller: C. M. Stoner Drilling Co.

Soil	1	1
Lime	194	195
Sand	35	230
Lime	378	608
Sandy lime and shale	70	678
Sand	32	710
Shale	12	722
Sand	12	734
Shale	6	740

Well BB-32-61-705--Continued

Sand	10	750
Shale	7	757

Well BB-32-61-706

Owner: Bestview Water Association
Driller: Leon Drilling Co.

Soil and gravel	5	5
Gray lime	20	25
Lime shells and shale	140	165
Sandy lime	5	170
Sandy shale	10	180
Water sand	40	220
Sandy shale - lime	2	222

Well BB-32-61-707

Owner: U.S. Army Corps of Engineers
Driller: Unknown

Rock	145	145
Shale	48	193
Rock	49	242
Shale and rock streaks	13	255
Sand and sandstone	11	266
Shale and rock streaks	11	277
Sandy shale	5	282
Sandy shale	12	294
Sand	11	305
Rock	333	638
Shale and rock streaks	30	668
Rock	10	678
Shale and rock	15	693
Rock	10	703
Shale and rock streaks	10	713
Sandy shale	10	723
Shale and rock streaks	15	738
Light colored sandy shale	10	748
Red shale	15	763
Sand	9	772
Red shale and rock streaks	11	783
Sand	10	793
Hard sand and sandstone	20	813
Red shale	37	850

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

Well BB-32-61-801

Owner: U.S. Army Corps of Engineers
Driller: Ward and Ward Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Surface soil	29	29
Rock	19	48
Shale	124	172
Water sand	46	218

Well BB-40-01-302

Owner: O. H. McGavock
Driller: Iredell Drilling

	THICKNESS (FEET)	DEPTH (FEET)
Topsoil and clay	35	35
Large gravel	15	50
Limestone and blue clay	150	200
Paluxy sand	20	220
Blue shale and lime	35	255
Trinity sand	35	290

Well BB-40-01-303

Owner: H. F. Myers
Driller: Iredell Drilling

	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	18	18
Lime	124	142
Blue shale	40	182
Sand (fine)	15	197
Blue shale	15	212
Sand (fine)	20	232
Blue shale	30	262
Sand (coarse with washed gravel)	53	315

Well BB-40-02-101

Owner: City of Iredell
Driller: Rufus Hampton Smith

	THICKNESS (FEET)	DEPTH (FEET)
Sand	4	4
Yellow clay	7	11
Blue shale	9	20
Glen Rose lime with streaks of sand	220	240
Lime with streaks of shale	35	275
Water sand (Trinity)	50	325

Well BB-40-02-102

Owner: City of Iredell
Driller: Unknown

	THICKNESS (FEET)	DEPTH (FEET)
Soil	20	20
Limestone	10	30
Soft blue marl	80	110
Blue marl	6	116
Soft white stone	50	166
Sandstone, limestone and marl	100	266
Soft sand rock, hard sand rock	45	311
Fine grained sandstone	6	317
Pack sand (flow of water)	18	335

Well BB-40-02-104

Owner: B. F. Strong
Driller: Iredell Drilling

	THICKNESS (FEET)	DEPTH (FEET)
Topsoil and gravel	25	25
Shale	15	402
Lime and shale breaks	160	200
Blue shale	18	218
Sandy shale	14	232
Sand	7	239
Blue shale	4	243
Sand and shale breaks	14	257
Rock	3	260
Sand	37	297
Sand and gravel	23	320
Red clay	10	330
Sand and clay	30	360
Red clay	50	410

Well BB-40-02-105

Owner: City of Iredell
Driller: Iredell Drilling

	THICKNESS (FEET)	DEPTH (FEET)
Topsoil and gravel	26	26
Blue shale	14	40
Lime	160	200
Sand	10	210

Table 3.--Drillers' Logs of Selected Wells in Bosque County--Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-02-105—Continued		
Shale and lime strips	60	270
Sand and gravel	56	326
Well BB-40-02-106		
Owner: Elliott Ensminger Driller: Iredell Drilling		
Topsoil and clay	20	20
Silica sand	15	35
Shale and lime	95	130
Fine sand	20	150
Lime and shale	150	300
Shale	75	375
Gravel and sand	50	425
Well BB-40-03-601		
Owner: City of Meridian Driller: J. L. Myers Sons		
Surface soil	10	10
Gravel	2	12
Lime	24	36
Rock	8	44
Sand	10	54
Rock	16	70
Shale	11	81
Rock	10	91
Sandy shale	4	95
Sand	10	105
Lime rock	6	111
Chalk rock	189	300
Lime rock	158	458
Chalk rock	2	460
Lime	15	475
Sandy shale	5	480
Sand	10	490
Sandy shale	20	510
Water sand	7	517
Rock	4	521
Sandy shale	5	526
Sand	10	536
Shale	14	550
Well BB-40-03-601—Continued		
Rock	1	551
Shale	32	583
Gumbo	4	587
Shale	21	608
Rock	2	610
Gray shale	5	615
Gumbo	11	626
Shale	10	636
Rock	1	637
Shale	8	645
Sand	79	724
Sand and gravel	9	733
Lime	1	734
Shale	25	759
Well BB-40-03-603		
Owner: City of Meridian Driller: C. M. Stoner Drilling Co.		
Chalk rock	6	6
Shell rock	164	170
Sand	20	190
Lime rock	370	560
Sandy lime	25	585
Sand	46	631
Green shale	4	635
Red shale	17	652
Sand	8	660
Red bed	25	685
Broken red and gray shale	45	730
Sand	108	838
Well BB-40-03-802		
Owner: Texas Parks and Wildlife Department Driller: Watts Drilling Co.		
Lime and caliche	45	45
Lime	75	120
Lime and blue shale	180	300
Sand	20	320
Lime	360	680
Sand	10	690
Lime and shale	20	710

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-03-802—Continued		
Sand		
Red clay		
Sand		
Well BB-40-03-901		
Owner: Texas Highway Department Driller: Watts Drilling Co.		
Topsoil	3	3
Shell rock	8	11
Blue lime	19	30
Hard gray lime	15	45
Blue shale	3	48
Hard blue lime	12	60
Blue shale and lime	49	109
Lime	361	470
Lime and blue shale	30	500
Sand	5	505
Lime and blue shale	27	532
Trinity water sand	38	570
Well BB-40-04-403		
Owner: N. P. Powell Ranch Driller: J. L. Myers Sons		
Surface soil	2	2
Rock	38	40
Lime	312	352
Sand	19	371
Lime	373	764
Sandy lime	57	801
Sand	61	862
Red bed	24	886
Sand and shale	15	901
Lime	35	936
Well BB-40-04-801		
Owner: N. P. Powell Ranch Driller: Hervey Meadows and Son Well Driller		
Soil	1	1
Rock	16	17
Blue rock	83	100
White lime	260	360

	THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-04-801—Continued		
Black shale	40	400
Hard sand	10	410
Glen Rose lime	312	722
Hard black shale	78	800
Sandy lime	40	840
Hard lime	20	860
First Trinity sand	40	900
Red bed shale	100	1,000
Red bed red sand	20	1,020
Red sand and shale	95	1,115
Hard black shale	5	1,120
Well BB-40-04-802		
Owner: N. P. Powell Ranch Driller: J. L. Myers Sons		
Clay	2	2
Rock	376	378
Sand	18	396
Rock	19	415
Lime	400	815
Broken sand	45	860
Sand	58	918
Red bed	30	948
Sand with streaks of shale	46	994
Sand	98	1,092
Broken lime	38	1,130
Well BB-40-04-803		
Owner: N. P. Powell Ranch Driller: J. L. Myers Sons		
Surface soil	3	3
Rock	9	12
Lime	327	339
Lime and streaks of shale	18	357
Fine sand	18	375
Lime	231	606
Sandy lime	91	697
Lime	22	719
Lime and streaks of sand	11	730
Sand	80	810

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-04-803—Continued		
Rock	8	818
Red bed	22	840
Hard sand	14	854
Lime and streaks of sand	22	876
Red bed	26	902
Sand	36	938
Lime and streaks of shale	33	971
Well BB-40-05-301		
Owner: U.S. Army Corps of Engineers Driller: Watts Drilling Co.		
Topsoil and clay	3	3
Lime	117	120
Lime and blue shale	140	260
Lime gravel and sand	25	285
Lime and blue shale	455	740
Gravel and sand	10	750
Red clay	175	925
Sand-water bearing	52	977
Well BB-40-05-401		
Owner: James Walker Driller: Iredell Drilling		
Topsoil	10	10
Surface rock	5	15
Limestone	35	50
Blue shale	35	85
Limestone	5	90
Blue shale	5	95
Blue rock	5	100
Blue shale	25	125
Lime and blue shale	50	175
Sandy shale and water	35	210
Lime	25	235
Lime and sandy shale	55	290
Lime solid	150	440
Brown lime and blue shale	230	670
Trinity sand	21	691
Well BB-40-05-701		
Owner: Ronnie Jones Driller: J. L. Myers Sons		
Rock	126	126
Lime	274	400
Sand	8	408
Lime	454	862
Sandy lime	28	890
Lime	4	894
Sand	18	912
Red bed	36	948
Green shale	13	961
Lime	9	970
Rock	3	973
Red bed	19	992
Shale and streaks of sand	36	1,028
Sand	55	1,083
Hard rock	3	1,086
Sand	21	1,107
Well BB-40-05-704		
Owner: N. P. Powell Ranch Driller: J. L. Myers Sons		
Surface soil	1	1
Rock	264	265
Lime	631	896
Sand	42	938
Red bed	24	962
Sand and shale	23	985
Red bed	15	1,000
Hard sand and shale	105	1,105
Streaks shale and sand	60	1,165
Rock	22	1,187
Well BB-40-05-905		
Owner: U.S. Army Corps of Engineers Driller: Watts Drilling Co.		
Yellow lime	6	6
White lime	12	18
Gray lime	130	148

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-05-905—Continued		
Shale and lime	41	189
Lime	89	278
Sand and shale	44	322
Lime and shale	500	822
Red bed	88	910
Sand and gravel	170	1,080
Shale	20	1,100
Well BB-40-10-802 Owner: City of Cranfills Gap Driller: R. A. Adams and Son		
Yellow clay	45	45
Blue gumbo	55	100
Blue lime and gumbo streaks	10	110
Blue lime	30	140
Gray lime	30	170
Blue shale	12	182
Blue lime and shale streaks	10	192
Paluxy sand - water	28	220
Glen Rose lime	3	223
Glen Rose lime (hard)	167	390
Lime and shale streaks	7	397
Hard lime	8	405
Soft lime	2	407
Lime	73	480
Green shale and lime streaks	7	487
Soft sticky lime	28	515
Blue shale	8	523
Hard lime	7	530
Black shale	5	535
Sandy lime	10	545
Sandy shale	5	550
Hard sand	7	557
Green shale	10	567
Hard sand rock	7	574
Beach sand and water	16	590
Hard sand rock	5	595
No record	2	597
Trinity sand, gravel and water	11	608
Fine sand	12	620
Red shale	7	627
Well BB-40-11-401 Owner: J. Bruce Parks Driller: Clarence Erickson		
Yellow clay and gravel	20	20
Hard shell rock	30	50
Blue gumbo	10	60
Paluxy sand	20	80
Very hard lime	15	95
Blue shale	3	98
Hard gray lime	302	400
Blue shale	15	415
Green sandy shale	20	435
Trinity sand and water	35	470
Red clay	5	475
Red rock	3	478
Well BB-40-11-402 Owner: Clarence Fields Driller: Clarence Erickson		
Yellow clay	35	35
Blue soapstone	2	37
Sandy clay	10	47
White rock and clay	4	51
Sand rock	9	60
Paluxy sand	18	78
Rock	12	90
Blue shale	2	92
Very hard rock	18	110
Well BB-40-12-101 Owner: Mildred Hogstel Driller: Clarence Erickson		
Coarse gravel	26	26
Blue shale	8	34
Hard white rock	46	80
Blue gumbo	10	90
Hard blue shell	5	95
Sandy blue shale	13	108

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

Well BB-40-12-101—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Green sand	2	110
Paluxy sand (lots of water)	18	128
White lime rock	2	230

Well BB-40-12-703

Owner: City of Clifton
Driller: J. L. Myers Sons

Lime	115	115
Broken lime	133	248
Walnut shell bed	15	263
Hard sandrock	2	265
Sandy shale	31	296
Lime	116	412
Broken lime	48	460
Lime	242	702
Broken lime	31	733
Sand	31	764
Broken sand	12	776
Red bed	46	822
Sand	18	840
Broken sand	20	860
Sand	22	882
Broken sand	30	912
Sand	24	936
Shale	6	942

Well BB-40-12-704

Owner: W. L. Gauntt
Driller: Frank Baker Place

Yellow clay	40	40
Blue rock	215	255
White rock	15	270
Soapstone	45	315
Paluxy sand	10	325
Black shale	15	340
Lime rock	430	770
Green shale	5	775
Hard sand	5	780
Trinity sand	32	812

Well BB-40-12-802

Owner: City of Clifton
Driller: E. E. Erickson

Gravel	30	30
Blue shale or soapstone	12	42
Lime	40	82
Blue shale	4	86
Hard lime	12	98
Blue shale	10	108
Hard caprock	2	110
Green sand	4	114
Paluxy sand (lots of water)	18	132
Gumbo	5	137
White lime	60	197
Honeycomb lime (more water)	15	212
White lime with a few breaks	338	550
Very hard lime	11	561
Shale and gumbo	26	587
Black gumbo	3	590
Hard caprock	3	593
Green shale and green sand	7	600
Sand (flowing lots of water)	46	646

Well BB-40-12-803

Owner: City of Clifton
Driller: E. E. Erickson

Gravel	35	35
Rock	55	90
Black gumbo	3	93
Green shale	2	95
Paluxy sand	25	120
Black gum	3	123
Rock	15	138
Black gum	2	140
Lime rock	43	183
Honeycomb lime	4	187
Lime rock	343	530
Shale and gravel sand	10	540
Green shale	28	568
Shale and sand	2	570

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-12-803—Continued		
Caprock	—	—
Trinity sand	40	610
Green shale	10	620
White and red clay	2	622
Red rock	56	678
Water sand	8	686
Shale and gray gum	12	698
Well BB-40-12-804		
Owner: City of Clifton Driller: Clarence Erickson		
Gravel	35	35
Blue rock	55	90
Black gumbo	4	94
Green gumbo	2	96
Paluxy sand and water	25	121
Black shale	3	124
White rock	13	137
Black gumbo	2	139
Hard rock	1	140
Hard lime	160	300
Green shale	10	310
White rock	90	400
Granite lime	27	427
Gray lime	103	530
Granite	20	550
Green gumbo	25	575
Coarse sand Trinity water	40	615
Green gumbo	2	617
Hard brown lime	5	622
Hard brown lime	4	626
Green and white clay	2	628
Red gumbo and red rock	56	684
Coarse sand and water	13	697
Gray and black shale	5	702
Well BB-40-12-805		
Owner: City of Clifton Driller: Clarence Erickson		
Gravel	30	30
Blue shale or soapstone	12	42
Caprock	—	—
Trinity sand	40	610
Green shale	10	620
White and red clay	2	622
Red rock	56	678
Water sand	8	686
Shale and gray gum	12	698

	THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-12-805—Continued		
Lime	40	82
Blue shale	4	86
Hard lime	12	98
Blue shale	10	108
Hard caprock	2	110
Green sand	4	114
Paluxy sand (lots of water)	18	132
Gumbo	5	137
White lime	60	197
Honeycomb lime (more water)	15	212
White lime with a few breaks	338	550
Very hard lime	11	561
Shale and gumbo	26	587
Black gumbo	3	590
Hard caprock	3	593
Green shale and sand	7	600
Trinity sand (lots of water)	46	646
Red bed	10	656
Sand	131	787
Well BB-40-13-301		
Owner: Lake Whitney Enterprises Driller: J. L. Myers Sons		
Rock	151	151
Lime	51	202
Broken lime	160	362
Lime	2	364
Sand	17	381
Hard lime - sand	127	508
Sandy lime	245	753
Lime	127	880
Sand	18	898
Mixed shale	75	973
Sandy shale	41	1,014
Sand	19	1,033
Hard sand	25	1,058
Sand	89	1,147
Lime	26	1,173

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

Well BB-40-13-303

Owner: Lake Whitney Enterprises
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Surface	1	1
Lime	174	175
Lime and shale	171	346
Sand	21	367
Lime	467	834
Sand	48	882
Lime and shale	196	1,078
Sand	64	1,142

Well BB-40-13-801

Owner: A. R. Bearden
Driller: Frank Baker Place

Soil and yellow clay	37	37
Blue rock	118	155
White lime	60	215
Blue shale and lime	160	375
White lime	15	390
Blue shale and soapstone	60	450
Paluxy sand	15	465
Black shale	5	470
Glen Rose lime	430	900
Sandy lime	50	950
Trinity sand	50	1,000

Well BB-40-18-303

Owner: Artesian Water Co.
Driller: J. L. Myers Sons

Soil	2	2
Clay	10	12
Rock with shale streaks	134	146
Limestone	386	532
Broken sand and shale	5	537
Sand with rock streaks	33	570
Shale	5	575

Well BB-40-19-402

Owner: Mrs. George Adams
Driller: C. M. Stoner Drilling Co.

Soil	2	2
White rock	38	40
Shell rock	145	185
Broken shell rock and shale	30	215
Sandy shale	5	220
Sand	5	225
Sandy shale	15	240
Lime rock	372	612
Sand	20	632
Sandy shale	6	638
Sand	55	693
Red bed	77	770
Sand	10	780
Shaly sand	30	810
Sand	20	830
Brown shale	5	835
Sand	5	840
Yellow shale	15	855

Well BB-40-20-303

Owner: A. L. Haster
Driller: Frank Baker Place

Soil and yellow clay	24	24
Blue rock	201	225
White rock	20	245
Blue shale and soapstone	50	295
Paluxy sand	25	320
Black shale	2	322
Glen Rose lime	393	715
Blue shale	5	720
Glen Rose lime	56	776
Hard sand	14	790
Soft sand (Trinity)	25	815

Well BB-40-20-703

Owner: Mosheim Water Supply Corp.
Driller: Hervey Meadows and Son Well Driller

Soil	1	1
Rock and clay	4	5
Yellow clay	2	7
White rock	22	29
Blue rock	6	35
Edwards limestone (fossils)	305	340

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-20-703—Continued		
Shale	320	660
Glen Rose limestone	20	680
Sand and shale	20	700
Glen Rose limestone and fine sand	97	797
Top of first Trinity	53	850
Sand and black shale	6	856
Well BB-40-20-901		
Owner: Fred Billings Driller: Frank Baker Place		
Soil and yellow clay	16	16
Blue shale	94	110
White lime	20	130
Blue shale and soapstone	35	165
Paluxy sand	40	205
White lime	90	295
Porous (water)	5	300
White lime	10	310
Well BB-40-21-202		
Owner: Edwin McMillan Driller: Frank Baker Place		
Soil and yellow clay	19	19
Blue rock	91	110
Broken white lime and blue shale	190	300
Paluxy sand	25	325
Black shale	2	327
Well BB-40-21-702		
Owner: City of Valley Mills Driller: Frank Baker Place		
Soil and Clay	25	25
Blue rock	62	87
Blue shale	33	120
Gray lime	44	164
Soapstone	44	208
Paluxy sand	12	220
Dark shale	8	228
Gray lime	238	466
Blue shale	14	480
White lime	225	705
Green shale	3	708
Hard sand (Trinity)	32	740
Soft sand	20	760
Red bed (hard)	1	761

BOSQUE COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

DATE	WATER LEVEL
Well BB-32-58-401	
Owner: Flat Top Ranch	
Mar. 22, 1966	37.22
Mar. 15, 1968	35.48
Mar. 20, 1969	36.60
Well BB-32-58-502	
Owner: Flat Top Ranch	
Mar. 22, 1966	220
Mar. 21, 1967	248.82
May 3, 1967	249.10
Mar. 15, 1968	251.52
Mar. 20, 1969	253.60
Well BB-32-59-401	
Owner: City of Walnut Springs	
Feb. 10, 1943	140
Mar. 15, 1968	211.4
Well BB-32-59-501	
Owner: Earl C. Morrison	
May 4, 1960	82
Dec. 31, 1964	90.60
Mar. 30, 1966	86.95
Aug. 31, 1966	77.92
Sept. 28, 1966	86.19
Oct. 27, 1966	85.82
Nov. 29, 1966	86.59
Feb. 9, 1967	88.39
Mar. 16, 1967	90.64
May 3, 1967	88.04
June 6, 1967	89.23

DATE	WATER LEVEL
Well BB-32-59-501—Continued	
June 30, 1967	94.00
Aug. 15, 1967	91.85
Sept. 14, 1967	90.87
Oct. 11, 1967	92.30
Nov. 14, 1967	90.66
Dec. 12, 1967	88.24
Jan. 17, 1968	87.43
Feb. 9, 1968	87.01
Mar. 14, 1968	85.84
Mar. 20, 1969	88.70
Well BB-32-60-602	
Owner: Kopperl Deep Well Co.	
Feb. 10, 1943	+ 12
Mar. 23, 1966	1.71
Mar. 30, 1966	2.10
Mar. 20, 1967	3.60
Mar. 15, 1968	6.07
Mar. 7, 1969	9.20
Well BB-32-60-701	
Owner: City of Morgan	
Feb. 10, 1943	98
Mar. 29, 1960	126.80
Aug. 21, 1967	160.9
Mar. 15, 1968	153.85
Mar. 20, 1969	162.95

DATE	WATER LEVEL
Well BB-32-61-703	
Owner: Lakeside Water Supply District	
Feb. 1964	25
Mar. 30, 1966	33.10
Mar. 20, 1967	35.68
Mar. 15, 1968	35.46
Mar. 7, 1969	39.40
Well BB-40-01-302	
Owner: O. H. McGavock	
Mar. 21, 1966	120.76
Mar. 21, 1967	123.12
Mar. 14, 1968	124.09
Mar. 19, 1969	126.10
Well BB-40-03-601	
Owner: City of Meridian	
Mar. 1949	65
Dec. 1964	261.0
Oct. 27, 1966	139.95
Dec. 30, 1966	121.02
Feb. 7, 1967	117.25
Mar. 16, 1967	118.48
May 3, 1967	118.26
Nov. 16, 1967	136.46
Dec. 12, 1967	133.38
Jan. 17, 1968	124.00
Feb. 9, 1968	121.88
Mar. 14, 1968	121.25

Table 4.--Water Levels in Selected Wells in Bosque County--Continued

DATE	WATER LEVEL
Well BB-40-04-801	
Owner: N. P. Powell Ranch	
Jan. 10, 1967	230.3
Mar. 18, 1968	223.79
Mar. 20, 1969	234.80
Well BB-40-05-701	
Owner: Ronnie Jones	
Mar. 12, 1954	152
Mar. 15, 1965	225.30
Mar. 22, 1966	231.88
Mar. 20, 1967	237.23
Mar. 15, 1968	243.25
Mar. 20, 1969	249.30
Well BB-40-05-903	
Owner: J. W. Murtishaw	
Feb. 1958	55
Oct. 7, 1964	80
Mar. 22, 1966	74.81
Mar. 20, 1967	83.25
Well BB-40-05-904	
Owner: U.S. Army Corps of Engineers	
Mar. 23, 1966	38.38
Mar. 20, 1967	42.49
Mar. 18, 1968	44.16
Dec. 4, 1968	50.35
Mar. 7, 1969	50.45
Well BB-40-10-801	
Owner: City of Cranfills Gap	
Mar. 10, 1962	346
Mar. 10, 1962	352.25
Apr. 24, 1964	130
Mar. 17, 1964	288.45
Well BB-40-10-801--Continued	
Mar. 20, 1967	291.1
Mar. 14, 1968	295.21
Mar. 19, 1969	298.10
Well BB-40-11-401	
Owner: J. Bruce Parks	
Mar. 26, 1964	130
Mar. 21, 1966	107.24
Sept. 28, 1966	130.67
Oct. 27, 1966	120.60
Nov. 29, 1966	108.8
Dec. 30, 1966	136.6
Feb. 8, 1967	126.30
Mar. 16, 1967	151.3
May 3, 1967	126.94
June 6, 1967	145.48
June 29, 1967	160.9
Aug. 15, 1967	152.00
Sept. 14, 1967	121.03
Oct. 11, 1967	116.29
Nov. 14, 1967	131.79
Dec. 12, 1967	127.62
Jan. 17, 1968	124.06
Feb. 6, 1968	117.80
Mar. 19, 1969	121.80
Well BB-40-12-805	
Owner: City of Clifton	
Sept. 17, 1948	27
Feb. 10, 1965	77.00
Mar. 17, 1966	96.00
Mar. 21, 1967	94.22
Mar. 15, 1968	94.39
Mar. 19, 1969	95.50
Well BB-40-14-508	
Owner: G. J. Roberts	
Mar. 23, 1966	5.90
Mar. 21, 1967	18.80
Mar. 18, 1968	15.70
Mar. 20, 1969	16.60
Well BB-40-14-701	
Owner: E. S. Dorman	
Apr. 6, 1960	123
Mar. 22, 1966	128.45
Apr. 20, 1967	126.55
Well BB-40-14-702	
Owner: E. S. Dorman	
Apr. 6, 1960	108.00
Mar. 22, 1966	141.41
Apr. 20, 1967	184.25
Mar. 18, 1968	149.77
Mar. 20, 1969	157.20
Well BB-40-19-201	
Owner: O. E. Pierson	
Apr. 19, 1960	79
Mar. 17, 1966	67.25
Mar. 17, 1967	71.99
Mar. 19, 1969	71.80
Well BB-40-20-301	
Owner: Charlie Thiele	
May 6, 1960	32
Mar. 17, 1966	62.61
Mar. 19, 1969	79.02

Table 4.—Water Levels in Selected Wells in Bosque County—Continued

DATE	WATER LEVEL
Well BB-40-20-602	
Owner: H. E. Prosser	
Oct. 6, 1964	95
Mar. 17, 1966	101.07
Mar. 17, 1967	105.63
Mar. 14, 1968	110.58
Well BB-40-21-701	
Owner: City of Valley Mills	
1941	+ 8
Oct. 1947	.8
Mar. 17, 1949	6
Aug. 1951	19
Mar. 1952	21
Sept 1952	21
Aug. 1956	53
1957	39
Jan. 11, 1965	82.90
Mar. 17, 1966	100.61
Mar. 17, 1967	94.49
Mar. 14, 1968	100.77
Mar. 20, 1969	113.20
Well BB-40-21-702	
Owner: City of Valley Mills	
Aug. 15, 1955	46
Sept. 9, 1955	36
Oct. 28, 1955	36
Dec. 8, 1955	36
Jan. 10, 1965	83.35
Jan. 11, 1965	82.98
Mar. 17, 1966	77.40
Mar. 17, 1967	97.88
Mar. 14, 1968	92.12
Mar. 20, 1969	94.80

BOSQUE COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpc, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
1/ 88-32-59-401	540	Feb. 10, 1943	Khe	11	0.04	39	32	* 66	--	370	36	16	0.4	0.0	--	371	--	229	39	--	8.2	1.9
401	540	Oct. 29, 1956	do.	--	.16	42	31	55	--	359	43	13	.3	< .4	--	388	362	235	34	--	7.5	1.7
402	611	Sept. 29, 1949	do.	15	.24	39	30	* 74	--	368	41	28	.3	< .4	--	378	409	201	42	--	7.7	2.2
402	611	Oct. 29, 1956	do.	--	.64	36	31	56	--	355	35	11	.2	< .4	--	370	345	220	36	--	7.3	1.7
1/ 402	611	Mar. 28, 1960	do.	15	.74	36	31	* 63.6	--	362	35	12	.4	.0	--	371	--	218	39	631	7.2	1.9
402	611	Oct. 6, 1966	do.	--	.08	36	32	60	--	361	29	24	.4	< .4	--	540	360	222	37	680	7.7	1.8
1/ 501	146	May 4, 1960	Kp	13	8.8	46	29	* 60	--	379	17	22	.1	6.8	--	386	--	234	36	678	7.0	1.7
1/ 60-602	760	Feb. 10, 1943	Ktp	11	.26	6	3.3	* 178	--	376	70	14	.3	.0	--	468	--	28	93	--	8.4	14.3
1/ 701	675	Mar. 29, 1960	Khe	14	.81	20	16	* 123.4	--	368	58	12	.4	.8	--	426	--	116	70	721	7.3	5.0
701	675	Apr. 11, 1960	do.	--	.14	20	18	108	--	361	50	14	.1	< .4	--	413	389	125	65	688	8.0	4.2
1/ 702	760	Feb. 10, 1943	Ktp	11	.05	23	14	* 124	--	371	45	12	.4	.2	--	414	--	115	70	--	8.3	5.0
1/ 61-701	490 570	Apr. 27, 1960	do.	12	--	4.2	4.2	* 225	--	401	156	18	--	.0	--	616	--	28	95	985	8.0	18.5
1/ 701	680 780 825	do.	do.	12	--	2.5	1.9	* 198	--	391	75	32	--	.0	--	513	--	14	97	840	8.2	23.3
2/ 707	813	May 30, 1962	Khe	--	--	5	2	178	--	268	92	22	--	--	--	580	431	18	95	--	7.7	16.8
1/ 40-02-101	325	Apr. 12, 1960	do.	15	1.1	46	33	* 55.1	--	355	42	18	.4	.8	0.16	385	--	250	32	652	7.2	1.5
1/ 102	335	Feb. 10, 1943	do.	14	.12	44	32	* 60	--	362	42	16	.2	.0	--	388	--	242	35	--	8.4	1.7
105	326	Sept. 19, 1968	do.	15	< .02	48	30	50	--	359	41	19	.4	< .4	--	380	--	245	31	650	7.5	1.4
1/ 03-601	759	Mar. 17, 1949	Kho	15	.0	14	8.4	* 154	--	372	52	26	.6	1.8	.17	457	--	70	83	723	8.4	8.0
601	759	Sept. 3, 1963	do.	--	< .02	14	9	139	--	372	45	25	.3	< .4	--	600	415	71	81	753	8.3	7.1
602	725	Feb. 19, 1938	Ktp	13	.24	18	10	* 146	--	388	53	25	.1	< .3	--	447	--	88	79	--	7.8	6.8
1/ 602	725	Feb. 9, 1943	do.	15	4.2	114	16	* 128	--	402	199	56	.2	.0	--	735	--	350	44	--	7.6	3.0
603	838	Sept. 3, 1963	Kho	--	.08	11	7	150	--	372	45	28	.2	< .4	--	610	425	55	85	756	8.0	8.7
603	838	Dec. 20, 1967	do.	--	.04	13	9	146	--	375	41	27	.4	< .4	--	610	420	71	82	775	8.0	7.6

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
BR-40-03-802	910	Dec. 2, 1964	Kho	--	1.18	13	8	140	--	375	35	18	0.5	7	--	600	407	66	82	732	8.2	7.5
802	910	Aug. 19, 1965	do.	--	0.12	15	9	136	--	372	37	21	.4	3	--	590	405	75	80	740	8.3	6.9
901	570	Mar. 21, 1966	Khe	13	--	30	12	120	--	361	49	11	.3	1.5	--	405	--	102	72	662	8.0	5.2
04-402	240	Sept. 19, 1968	Kp	12	.16	2	1	172	--	400	27	15	.6	< .4	--	431	--	10	98	702	8.4	24.9
05-301	977	Mar. 22, 1963	Kho	--	3	5	1	219	--	282	111	88	.7	< .4	--	730	567	17	97	1,095	8.9	23.2
1/ 701	1,107	Mar. 31, 1960	do.	14	--	2.8	1.5	* 201.6	--	385	83	35	.4	1	0.25	531	--	13	97	856	8.2	24.4
1/ 10-101	330	Apr. 19, 1960	Kp	14	--	24	13	* 151	--	351	90	39	.7	5.8	--	510	--	114	74	819	7.8	6.1
1/ 801	549	Feb. 10, 1943	Khe	8.8	.2	20	14	* 146	--	330	90	31	1.1	2	--	476	--	108	75	--	8.4	6.1
801	549	Mar. 9, 1967	do.	--	.10	21	19	101	--	344	47	--	.6	< .4	--	550	358	128	63	--	--	3.9
1/ 802	627	Apr. 13, 1960	do.	14	.02	21	16	* 124.6	--	344	66	26	1	.0	.42	438	--	118	70	719	7.5	5.0
11-401	478	Sept. 19, 1968	do.	9	.02	9	8	419	--	709	297	56	6.8	1	--	1,160	--	56	94	1,760	8.0	24.3
402	110	Dec. 9, 1968	Kp	9	16.80	107	4	21	--	281	82	12	.3	< .4	--	373	391	284	14	584	7.3	0.5
1/ 12-101	130	Apr. 6, 1960	do.	10	--	2.2	2.1	* 272	--	532	122	21	4	3.2	--	698	--	14	98	1,100	8.0	32.0
1/ 301	433	Mar. 30, 1960	do.	8.8	--	73	31	* 264	--	328	420	120	1.6	5	--	1,090	--	310	65	1,640	7.5	6.5
703	942	July 20, 1963	Kho	--	.14	3	1	192	--	403	63	22	.5	< .4	--	700	480	12	97	880	8.6	23.9
703	942	Feb. 6, 1964	do.	--	.76	3	11	193	--	400	63	20	.5	< .4	--	690	489	11	89	884	8.8	11.5
703	942	Feb. 12, 1965	do.	--	.06	3	1	198	--	411	54	21	.4	< .4	--	700	480	12	97	852	8.6	24.6
1/ 801	600	Apr. 19, 1960	Khe	9.8	--	17	14	* 570	--	512	784	61	6.3	1.8	--	1,720	--	100	93	2,520	7.8	24.8
1/ 802	646	Feb. 9, 1943	do.	13	.07	3.8	2.3	* 191.4	--	429	58	10	.5	.0	--	499	--	19	96	--	8.4	18.9
803	698	Jan. 12, 1956	Khe, Kpe	12	.03	3	1	212	--	415	83	18	.6	< .4	--	515	534	12	98	--	8.5	26.3
2/ 803	698	--	do.	9.4	.70	4	2.2	204	--	447	73	14	.4	0	--	520	--	19	96	--	8.4	20.2
805	787	Nov. 26, 1941	Kep, Kho	11	.06	7	3	* 194	--	384	55	28	.4	< .4	--	486	--	31	93	--	8.4	15.3
2/ 805	787	--	do.	11	.01	3.4	1	197	4.2	438	55	20	.0	.0	--	532	507	12	97	--	8.4	23.8
1/ 805	787	Feb. 9, 1943	do.	11	.01	3.4	1.9	* 199	--	414	56	21	.2	.0	--	496	--	16	96	--	8.4	21.1
805	787	Jan. 12, 1956	do.	12	.03	3	1	208	--	415	75	25	.5	< .4	--	504	529	12	98	--	8.4	25.9
13-301	1,173	Apr. 15, 1966	Kho	--	.02	† 3	--	204	--	403	72	27	.4	< .4	--	710	505	8	--	925	8.1	--
303	1,142	do.	do.	--	< .02	3	1	204	--	383	69	27	.3	< .4	--	700	493	10	97	925	8.7	25.3
801	1,000	Jan. 3, 1967	Khe	12	--	3	4	217	--	409	142	19	1	< .4	--	600	--	27	95	945	8.4	19.3
1/ 14-501	1,300	Apr. 26, 1960	Ktp	12	.02	8	12	* 352	--	426	414	39	2	3	.97	1,050	--	70	92	1,620	7.8	18.2
501	1,300	Jan. 3, 1966	do.	10	--	19	24	560	--	453	840	60	5.6	< .4	--	1,740	--	146	89	2,500	7.8	20.1
508	1,262	Sept. 19, 1968	Kho	14	.16	5	4	274	--	443	215	36	1.8	< .4	--	770	--	30	95	1,181	8.3	22.1
1/ 701	450	Apr. 6, 1960	Kp	8.4	--	53	5.4	* 65	--	332	.0	16	--	.0	--	311	--	154	48	543	6.8	2.3

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

	WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
	702	1,010	Apr. 6, 1960	Khe	34	--	4	2.4	* 226	--	426	121	23	1.2	1	0.42	602	--	20	96	946	7.9	21.8
1/	19-201	122	Apr. 19, 1960	Kp	9.6	--	11	7.5	* 455	--	513	458	95	5.8	2	--	1,300	--	58	94	1,950	7.6	25.7
4/	20-703	856	June 16, 1966	Khe	--	--	2	2	210	--	415	80	23	--	--	.5	600	521	14	97	--	8.3	25.4
	21-202	327	Dec. 6, 1968	Kp	9	--	49	37	1,220	--	630	2,060	215	5.6	< .4	--	3,910	--	274	91	4,980	8.0	32.0
	701	962	Nov. 17, 1938	Kkp	14	0.04	5	3	* 221	--	421	88	39	< .4	< .4	--	570	--	25	95	--	8.5	19.2
1/	701	962	Mar. 17, 1949	do.	12	.05	2.2	1.7	* 225	--	302	99	35	.6	1.2	.10	583	525	12	98	953	8.5	27.2
	701	962	Oct. 5, 1950	do.	15	.12	8	5	* 216	--	390	92	39	.4	< .4	--	567	--	41	92	--	8.6	14.7
	701	962	Mar. 8, 1957	do.	--	.32	2	2	244	--	421	98	32	.5	1.3	--	585	--	12	98	972	8.2	29.5
	702	761	July 29, 1957	Khe	--	.02	4	3	220	--	428	79	20	1	< .4	--	525	537	21	96	875	8.2	19.9
	702	761	Dec. 16, 1964	do.	--	.08	5	1	210	--	420	79	16	1	< .4	--	740	519	18	97	945	8.6	22.3

* Sodium and potassium calculated as sodium (Na)
† Calcium and magnesium calculated as calcium (Ca)

LABORATORY CONDUCTING ANALYSIS:

1/ U.S. Geological Survey Laboratory
2/ Dallas Laboratories
3/ Laboratory unknown
4/ Trinity Testing Laboratories

31/32

41/40

ERATH COUNTY

SOMERVELL COUNTY

JOHNSON COUNTY

HILL COUNTY

HAMILTON COUNTY

CORYELL COUNTY

MC LENNAN COUNTY

HILL COUNTY

HILL COUNTY

REDELL

WALNUT SPRINGS

MORGAN

KOPPERL

MERIDIAN

CRANFILLS GAP

CLIFTON

VALLEY MILLS

WHITNEY LAKE

NORTH BOSQUE RIVER

EAST BOSQUE RIVER

BOSQUE RIVER

NORTH BOSQUE RIVER

MIDDLE BOSQUE RIVER

SPRING CREEK

97°30'

97°37'30"

97°45'

97°52'30"

98°00'

32°00'

32°07'30"

31°52'30"

31°45'

97°22'30"

97°15'

EXPLANATION

Public supply well

Industrial well

Irrigation well

Domestic or livestock well

Oil or gas well

Unused or abandoned well

Solid circle indicates flowing well

501

Line above well number indicates chemical analysis given in Table 5

Location of Selected Water, Oil, and Gas Wells in Bosque County

BROWN COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Khp, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* BR-30-64-601	-- Rippy	--	--	40	24	--	Ka	1,701	28.9 26.70	Apr. 23, 1962 Mar. 11, 1969	N	N	Well used in 1967 Brown County report. Dug well with brick wall. Texas Water Development Board observation well. Abandoned. 2/
* 602	H. H. Lawson	--	1880	43	48	--	do.	1,701	33 29	Oct. 25, 1960 Apr. 23, 1962	J, E 1/2	D, S	Well used in 1967 Brown County report. Dug well. Temp. 64°F.
* 919	P. P. Clark	--	--	49	4	--	do.	1,594	20.6 21.49	May 1, 1962 Mar. 23, 1967	C, E	D, S	Well BR-31-57-712 in 1967 Brown County report. Texas Water Development Board observation well. 2/
31-57-405	Mrs. Greynolds	G. Greynolds	--	75.5	8	75.5	do.	1,635	27	May 2, 1963	C, W	S, Irr	Well used in 1967 Brown County report.
406	do.	do.	--	73.5	8	73.5	do.	1,635	21.7 14.00	May 2, 1963 Mar. 11, 1969	C, W	S, Irr	Well used in 1967 Brown County report. Texas Water Development Board observation well. 2/
* 520	A. M. Goss	Timmie Johnson	1954	155	7 --	118 153	do.	1,675	75 75	May 31, 1963 May 1967	Sub, E 3	D, S Irr	Well used in 1967 Brown County report. Well deepened from 115 to 155 ft in 1967. Slotted from 78 to 118 ft, and perforated from 113 to 153 ft. Pump set at 100 ft. Reported yield 90 gpm.
523	do.	--	--	116.2	6	--	do.	1,661	68.6 69.65	May 8, 1963 Mar. 11, 1969	C, W	S	Well used in 1967 Brown County report. Texas Water Development Board observation well. 2/
601	B. Richards	A. Turpin	--	100	5	100	do.	1,662	--	--	C, W	D, S	Well used in 1967 Brown County report.
805	Annie Lester	--	--	32.4	48	32.4	do.	1,625	16.15 14.10	May 10, 1963 Mar. 11, 1969	C, E 1/2	D, S	Well used in 1967 Brown County report. Dug well with rock wall from 32.4 ft to surface. Texas Water Development Board observation well. 2/
914	Ben Moore	--	--	169	6	169	do.	1,707	139 136.80	May 29, 1963 May 11, 1969	C, G	S	Well used in 1967 Brown County report. Texas Water Development Board observation well. 2/
41-01-201	George Bean Estate	A. Turpin	--	85	5	--	Ktp	1,651	70 60.30	Oct. 26, 1960 Mar. 11, 1969	N	N	Well used in 1967 Brown County report. Texas Water Development Board observation well. Abandoned. 2/
234	May Water Supply Corp.	Curtis Alford Drilling and Well Service	1967	118	8	118	do.	1,650	65.82 66.10	Mar. 23, 1967 Mar. 11, 1969	Sub, E	P	Perforated from 70 to 100 ft. Reported yield 45 gpm. Gravel packed. Texas Water Development Board observation well. 1/ 2/
308	D. L. Wagnon	--	--	200	5	200	do.	1,755	100	May 31, 1963	C, W	S	Well used in 1967 Brown County report.
* 402	Marshall Crume	--	--	33	5	33	do.	1,590	23	Apr. 19, 1963	C, W	D, S	Do.
514	Anna Lee Yoes	--	--	175	5	175	do.	1,708	125	Apr. 9, 1963	C, W	D, S	Well used in 1967 Brown County report. Reported caved since drilled.

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM-ETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* BR-41-01-918	Claude McInnis	--	--	135	5	135	Ktp	1,675	45 107.20	Mar. 29, 1963 Mar. 11, 1969	C, E 1/2	D, S	Well used in 1967 Brown County report. Texas Water Development Board observation well. 2/
* 02-108	W. O. Henderson	--	--	165	5	165	do.	1,670	60	Apr. 6, 1963	C, W	D, S	Well used in 1967 Brown County report.
* 805	James Hutchings	--	1945	135	5	135	Kp	1,762	139.6 108.7	Feb. 14, 1963 Mar. 22, 1968	C, W	S	Well used in 1967 Brown County report. Texas Water Development Board observation well. 2/
* 09-303	A. G. Wilkinson	--	--	102	5	102	Ktp	1,600	74.5 78.40	Mar. 9, 1963 Mar. 12, 1969	C, W	D, S	Do.
* 10-424	Wayne Furry	George Bolton	1964	110	7	110	do.	1,535	67.48	July 6, 1965	Sub, E 5	Irr	Perforated from 65 to 110 ft. Pump set at 100 ft. Reported yield 125 gpm. Gravel packed. Temp. 68°F.
* 602	City of Blanket	do.	1957	250	6	250	do.	1,657	200	Feb. 22, 1963	Sub, E 2	P	Well used in 1967 Brown County report.
* 603	do.	Elmer Simpson	--	180	6	180	Khe	1,640	160 171.57	Feb. 22, 1963 May 8, 1968	Sub, E 1	P	Do.
* 604	do.	Tatum Drilling Co.	--	196	6	196	Ktp	1,628	176	Feb. 22, 1963	C, E 2	N	Do.
639	do.	Robert M. Wirdell	1963	207	7 1	207 --	do.	1,621	160 154.83	Oct. 8, 1964 Mar. 12, 1969	Sub, E 1 1/2	P	Pump set at 190 ft. Reported yield 10 gpm. Texas Water Development Board observation well. 2/
* 725	W. S. Byrd	--	1954	139	5	139	do.	1,495	96	Jan. 16, 1963	C, W	S	Well used in 1967 Brown County report. Well was originally drilled as oil well.
* 903	W. J. Bettis	--	--	124	5	124	do.	1,550	76.7 71.30	Jan. 18, 1963 Mar. 12, 1969	C, W	D, S	Well used in 1967 Brown County report. Texas Water Development Board observation well. 2/
* 11-721	Karl Stewart	--	--	120	5	120	Khe	1,556	21.6 20.36	Feb. 9, 1963 Mar. 12, 1969	Sub, E	D, S	Well used in 1967 Brown County report. Texas Water Development Board observation well. 2/
18-205	Joe Foster	--	--	181	5	181	Ktp	1,610	138.0 140.80	Jan. 3, 1963 Mar. 12, 1969	C, W	S	Do.
* 303	Carl Taylor	--	--	120	5	120	do.	1,530	50 78.02	Dec. 18, 1962 Mar. 12, 1969	C, W	D, S	Do.
* 620	A. R. Sikes	--	--	144	5	144	do.	1,462	41.5 5.00	Nov. 29, 1962 Mar. 12, 1969	C, W	D, S	Do.
810	Mrs. Zelma Locks	--	1905	110	5	110	do.	1,495	60	Nov. 15, 1962	C, W	D, S	Well used 1967 Brown County report.
* 930	Pete Sanchez	--	1953	143	5	143	Kho, P	1,419	69 94.25	Oct. 23, 1962 Mar. 12, 1969	C, W	D, S	Well used in 1967 Brown County report. Texas Water Development Board observation well. 2/
19-110	C. R. Bosse	--	--	189	5	189	Ktp	1,590	155.9 156.05	Dec. 21, 1962 Mar. 12, 1969	N	N	Well used in 1967 Brown County report. Texas Water Development Board observation well. Abandoned. 2/
201	John Hovorak	--	--	174	5	174	Kp	1,721	100.6 53.30	Dec. 21, 1962 Mar. 12, 1969	C, E	S	Well used in 1967 Brown County report. Texas Water Development Board observation well. 2/
411	C. R. Bosse	--	--	160	5	160	Khe	1,590	100 ~	Jan. 9, 1963	C, W	N	Well used in 1967 Brown County report.

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ For water-level measurements, see Table 4.

BROWN COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

D, Drillers'; E, Electric; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
BR-31-57-530	Coastal States Gas Producing Co.	S. L. Rankin No. 1	1960	3,009	1,737	E
921	Coal Tullous and Co.	Ben Moore No. 1	—	1,394	1,755	S
41-02-401	C. W. Phayer	Ross No. 1	1950	2,833	1,850	E
19-132	Clarence F. Chang and Associates	Sallie Baker No. 1	1950	1,972	1,520	D

Table 3.—Drillers' Logs of Selected Wells

Well BR-41-01-234

Owner: May Water Supply Corp.
Driller: Curtis Alford Drilling and Well Service

	THICKNESS (FEET)	DEPTH (FEET)
Soil and caliche	5	5
Blue soapstone	15	20
Yellow and brown shale	13	33
Sandy (little water)	37	70
Sand	25	95
Gravel and sand	5	100
Soapstone, blue and gray	18	118

Well BR-41-19-132

Owner: Sallie Baker
Driller: Clarence F. Chang and Associates

	THICKNESS (FEET)	DEPTH (FEET)
Surface clay	5	5
Blue shale	18	23
Sandy lime	9	32
Sand	19	51
Lime and broken lime	54	105
Shale	4	109
Fresh water sand	8	117
Red bed	41	158
Sandy lime	6	164
Broken shale and sandy lime	186	350

Well BR-41-19-132—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Shale and shell	80	430
Blue shale and sandy lime	42	472
Lime	3	475
Gray shale and black	45	520
Lime shell	4	524
Sand slight salt water	68	592
Shale and shell	20	612
Sand and sand shale, salt water increase	68	68
Dark shale with sandy streaks and lime shells	289	969
Sandy lime and black shale	156	1,125
Lime	73	1,198
Sandy shale	51	1,249
Sandy lime	11	1,260
Black shale	15	1,275
Black slate	384	1,659
Shale and sandy lime	26	1,685
Lime black and brown	131	1,816
Black slate and shells	84	1,900
Sandy lime	10	1,910
Lime and chert	62	1,972

BROWN COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

Well BR-30-64-601

Owner: — Rippy

DATE	WATER LEVEL
Apr. 23,1962	28.9
Apr. 28, 1968	28.16
Mar. 23, 1967	27.78
Mar. 21, 1968	27.38
Mar. 11, 1969	26.70

Well BR-30-64-919

Owner: F. P. Clark

DATE	WATER LEVEL
May 1, 1962	20.6
Apr. 28, 1966	21.3
Mar. 23, 1967	21.49

Well BR-31-57-406

Owner: Mrs. Greynolds

DATE	WATER LEVEL
May 2, 1963	21.7
Apr. 29, 1966	19.9
Mar. 23, 1967	19.41
Mar. 11, 1969	14.00

Well BR-31-57-523

Owner: A. M. Goss

DATE	WATER LEVEL
May 8, 1963	68.6
Apr. 29, 1966	67.47
Mar. 23, 1967	67.43
Mar. 21, 1968	67.18
Mar. 11, 1969	69.65

Well BR-31-57-805

Owner: Annie Lester

DATE	WATER LEVEL
May 10, 1963	16.15
Apr. 28, 1966	15.77

Well BR-31-57-805—Continued

DATE	WATER LEVEL
Mar. 23, 1967	16.36
Mar. 11, 1969	14.10

Well BR-31-57-914

Owner: Ben Moore

DATE	WATER LEVEL
May 29, 1963	139
Apr. 28, 1966	144.80
Mar. 23, 1967	145.2
Mar. 11, 1969	136.80

Well BR-41-01-201

Owner: George Bean Estate

DATE	WATER LEVEL
Oct. 26, 1960	70
Apr. 28, 1966	69.63
Nov. 29, 1966	69.26
Jan. 2, 1967	68.69
Feb. 8, 1967	69.57
Mar. 23, 1967	69.41
May 4, 1967	69.36
June 7, 1967	69.21
June 29, 1967	69.57
Aug. 2, 1967	69.77
Sept. 11, 1967	70.12
Oct. 3, 1967	70.02
Nov. 7, 1967	70.16
Dec. 4, 1967	69.86
Jan. 3, 1968	69.87
Feb. 5, 1968	69.79
Mar. 11, 1969	60.30

Well BR-41-01-234

Owner: May Water Supply Corp.

DATE	WATER LEVEL
Mar. 23, 1967	65.82
Mar. 21, 1968	67.01
Mar. 11, 1969	66.10

Well BR-41-01-918

Owner: Claude McInnis

DATE	WATER LEVEL
Mar. 29, 1963	45
Mar. 23, 1967	105.71
Mar. 11, 1969	107.20

Well BR-41-02-805

Owner: James Hutchings

DATE	WATER LEVEL
Feb. 14, 1963	119.6
Apr. 28, 1966	113.21
Mar. 23, 1967	122.9
Mar. 22, 1968	108.7

Well BR-41-09-303

Owner: A. G. Wilkinson

DATE	WATER LEVEL
Mar. 9, 1963	74.5
Apr. 28, 1966	78.8
Mar. 23, 1967	73.26
Mar. 12, 1969	78.40

Well BR-41-10-639

Owner: City of Blanket

DATE	WATER LEVEL
Oct. 8, 1964	160
Apr. 28, 1966	162.81
Nov. 29, 1966	156.51
Jan. 2, 1967	154.74
Feb. 8, 1967	155.61

Table 4.—Water Levels in Selected Wells in Brown County—Continued

DATE	WATER LEVEL
Well BR-41-10-639—Continued	
Mar. 23, 1967	156.13
May 4, 1967	155.09
Aug. 2, 1967	156.88
Sept. 13, 1967	155.96
Oct. 3, 1967	158.09
Nov. 8, 1967	155.52
Dec. 5, 1967	154.84
Jan. 15, 1968	154.83
Feb. 5, 1968	154.96
Mar. 22, 1968	155.73
Mar. 12, 1969	154.83
Well BR-41-10-903	
Owner: W. J. Bettis	
Jan. 18, 1963	76.7
Apr. 28, 1966	79.8
Mar. 12, 1969	71.30
Well BR-41-11-721	
Owner: Earl Stewart	
Feb. 9, 1963	21.6
Apr. 28, 1966	20.91
Well BR-41-11-721—Continued	
Mar. 23, 1967	23.44
Mar. 12, 1969	20.36
Well BR-41-18-205	
Owner: Joe Foster	
Jan. 3, 1963	138.0
Apr. 28, 1966	137.84
June 7, 1967	138.19
June 29, 1967	138.38
Aug. 2, 1967	139.31
Sept. 13, 1967	138.08
Oct. 5, 1967	138.10
Dec. 5, 1967	138.45
Jan. 15, 1968	138.10
Feb. 5, 1968	137.87
Mar. 22, 1968	137.60
Mar. 12, 1969	140.80
Well BR-41-18-303	
Owner: Carl Taylor	
Dec. 18, 1962	50
Apr. 28, 1966	80.03
Mar. 12, 1969	78.02
Well BR-41-18-620	
Owner: A. R. Sikes	
Nov. 29, 1962	41.5
Apr. 28, 1966	27.02
Mar. 12, 1969	5.00
Well BR-41-18-930	
Owner: Pete Sanchez	
Oct. 23, 1962	69
Mar. 23, 1967	85.63
Mar. 12, 1969	94.25
Well BR-41-19-110	
Owner: C. R. Boase	
Dec. 21, 1962	155.9
Apr. 28, 1966	155.68
Mar. 23, 1967	156.07
Mar. 12, 1969	156.05
Well BR-41-19-201	
Owner: John Hovorak	
Dec. 21, 1962	100.6
Apr. 28, 1966	136.56
Mar. 23, 1967	138.40
Mar. 22, 1968	48.3
Mar. 12, 1969	53.30

BROWN COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kau, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khc, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS REPORTED	DISSOLVED SOLIDS RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
1/ BR-30-64-601	40	Dec. 1, 1937	Ka	--	--	147	11	* 180	--	433	61	245	--	49.0	--	686	906	412	49	--	--	3.9
1/ 602	43	Apr. 23, 1962	do.	17	--	318	17	* 20	--	262	43	130	--	578	--	1,117	1,250	864	5	864	6.8	0.3
602	43	Mar. 14, 1969	do.	20	--	750	72	75	--	195	128	292	0.4	2,058	--	3,490	--	2,160	7	4,090	7.2	.7
2/ 919	49	May 1, 1962	do.	16	--	180	99	* 131	--	464	65	488	.8	2.5	--	974	1,210	856	25	2,220	7.0	1.9
31-57-320	118	May 31, 1963	do.	14	--	155	66	96	--	425	63	296	.3	18.0	--	1,130	917	660	24	1,690	7.2	1.6
520	155	July 23, 1968	do.	--	--	--	--	--	3.0	--	--	--	--	--	0.4	--	--	--	--	--	--	--
41-01-402	33	Apr. 9, 1963	Ktp	42	--	200	51	260	--	530	211	409	1.0	9.0	--	1,710	1,448	710	44	2,390	7.3	4.3
3/ 918	135	Mar. 28, 1963	do.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,229	--	--
02-108	165	Apr. 8, 1963	do.	16	--	76	52	330	--	398	54	57	.6	9.0	--	700	791	401	64	862	7.6	7.1
3/ 805	135	Feb. 14, 1963	Kp	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	735	--	--
09-303	102	Mar. 19, 1963	Ktp	14	--	77	57	41	--	409	111	46	.7	< .4	--	760	548	427	17	930	7.9	.9
10-424	110	July 6, 1965	do.	13	--	100	57	43	--	418	113	81	.7	7.0	--	830	621	484	16	1,035	7.3	.9
424	110	July 23, 1968	do.	--	--	--	--	--	5.0	--	--	--	--	--	.3	--	--	--	--	--	--	--
602	250	Feb. 20, 1963	do.	14	--	58	82	41	--	397	130	71	.5	2.0	--	796	594	484	16	1,030	7.6	.8
603	180	do.	Khc	14	--	98	73	59	--	398	147	119	.4	17.0	--	925	723	544	19	1,250	7.5	1.1
3/ 604	196	do.	Ktp	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	931	--	--
725	139	Jan. 16, 1963	do.	14	--	70	45	286	--	301	158	405	.5	2.0	--	1,281	1,129	362	63	2,000	7.7	6.6
903	124	Jan. 18, 1963	do.	12	--	68	58	202	--	447	257	157	1.0	2.9	--	1,205	978	410	52	1,600	7.6	4.4
11-721	120	Feb. 2, 1963	Khc	18	--	95	43	58	--	346	98	106	.7	3.0	--	768	592	414	23	1,033	7.6	1.2
18-303	120	Dec. 4, 1962	Ktp	17	--	58	57	51	--	434	52	44	1.0	7.0	--	721	500	379	23	872	7.7	1.1
620	144	Nov. 29, 1962	do.	11	--	28	23	345	--	580	133	190	1.8	2.9	--	1,314	1,020	166	82	1,756	7.2	11.7
930	143	Oct. 19, 1962	Khu, P	14	--	62	57	11	--	455	11	15	.1	6.0	--	631	400	388	6	680	7.6	.2

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

1/ The University of Texas
2/ U.S. Geological Survey Laboratory
3/ Laboratory unknown

BROWN COUNTY

Table 6.—Chemical Analyses of Oil-Field Brines

(Analyses are given in parts per million except pH)

SYSTEM	PRODUCING ZONE	FIELD	AVERAGE DEPTH (FT)	AREA SHOWN ON FIGURE 18, VOLUME I	CALCIUM (Ca)	MAG-NESIUM (Mg)	SODIUM (Na)	BICAR-BONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	TOTAL DISSOLVED SOLIDS	pH
Pennsylvanian[a]	Strawn sand	Regular	490	K-12	1,000	340	11,200*	244	Trace	20,000	—	6.4
Do.[a]	do.	do.	490	K-12	1,000	340	8,940*	268	Trace	16,400	—	6.6
Do.[a]	do.	do.	600	K-12	1,160	535	8,350*	207	Trace	16,400	—	6.6
Do.[a]	do.	do.	1,213	P-4	2,480	826	14,000*	37	Trace	28,400	—	5.6
Do.[b]	Blake sand	Blake No. 1	1,100	P-4	4,300	1,455	18,500	558	427	40,000	—	6.0
Do.[b]	Caddo	Cross Cut	2,131	P-4	5,940	3,140	31,800	132	49	67,500	—	7.1
Do.[b]	Marble Falls	Hafner	2,400	P-4	8,030	1,855	30,250	150	229	66,100	—	6.3
Do.[b]	Cross Cut sand	Caruth No. 2	1,200	P-4	2,350	793	18,800	297	4	35,300	—	6.9
Do.[b]	do.	Regular	—	?	3,120	1,680	20,720	605	90	42,500	68,000	6.5
Do.[b]	do.	do.	—	?	4,800	1,824	23,710	149	10	50,500	80,830	6.7
Do.[b]	do.	do.	—	?	6,370	1,520	27,500	155	—	58,000	105,500	6.4
Do.[b]	Fry sand	do.	—	?	7,330	1,890	30,000	150	100	64,000	95,000	6.7
Do.[b]	do.	Smith-Lewis	—	P-5	7,440	830	26,400	207	380	56,000	91,260	6.1
Ordovician[b]	Ellenberger	Regular	—	?	1,000	336	16,350	378	40	28,000	45,690	7.3
Do.[b]	do.	do.	—	?	1,055	285	14,250	495	125	24,300	42,300	6.8
Cambrian[b]	Cambrian	Regular	—	?	2,600	672	31,890	44	250	55,500	90,410	6.1

* Indicates sodium and potassium.

[a] Analyses obtained from data accompanying Railroad Commission of Texas' 1967 Salt Water Production and Disposal questionnaires.

[b] Analyses obtained from Laxson and others, 1960.

CALLAHAN COUNTY

EASTLAND COUNTY

30 31

30 42

31 41

99°07'30"

99°00'

98°52'30"

98°45'

32°00'

31°52'30"

31°45'

31°37'30"

31°30'

EXPLANATION

Public supply well

Industrial well

Irrigation well

Domestic or livestock well

Oil or gas well

Unused or abandoned well

Solid circle indicates flowing well

601

Line above well number indicates chemical analysis given in Table 5

COMANCHE COUNTY

COLEMAN COUNTY

BROWN COUNTY

MILLS COUNTY

SAN SABA COUNTY

MC CULLOCH COUNTY

LAKE BROWNWOOD

BANGS

BROWNWOOD

EARLY

BLANKET

0 1 2 3 4 5 MILES

Location of Selected Water, Oil, and Gas Wells in Brown County

BURNET COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane, or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW (-) LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* BT-41-63-901	H. V. Campbell	Boyd Fisher	--	180	5	--	Ktp	1,194	145 151.0	Apr. 27, 1961 Mar. 6, 1969	C, W	D, S	Texas Water Development Board observation well. 4/
64-803	Ira Hopper	--	--	270	8	--	do.	1,035	31 29.1	Apr. 20, 1961 Mar. 7, 1969	C, E 1/2	D, S	Do.
57-06-601	Andy Webb	Smart Drilling and Supply	1968	569	5	150	Ktp, P	1,455	290	May 13, 1968	Sub, E 1	D	Open hole completion from 150 to 569 ft. Bailing level 300 ft at 20 gpm. Pump set at 336 ft.
07-401	Clydene May	do.	1968	295	7 5	41 295	P	1,360	264	Apr. 10, 1968	Sub, E 1	D	Slotted from 235 to 295 ft. Pump set at 273 ft. Estimated yield 15 gpm. Cemented from 41 ft to surface.
602	Marvin Coley	--	--	196	--	--	Ktp	1,358	101	July 19, 1957	J, E 1	D, S	
* 901	Frank Hall	Smart Drilling and Supply	1965	346	7 5	52 346	do.	1,360	200	July 26, 1965	Sub, E 1-1/2	D	Open hole completion from 52 to 106 ft and perforated from 300 to 346 ft. Bailing level 300 ft at 20 gpm. Pump set at 315 ft. Cemented from 52 ft to surface. Temp. 72°F.
08-501	Paul Harvey	--	1960	232	6	--	do.	1,114	50	Apr. 19, 1961	C, R	S	
* 801	Bill Bryson	Twin City Oil and Gas Co.	1922	2,285	16 10 8	1,180 1,700 2,285	P	1,225	+ 80	1922	Flows	N	Well was originally drilled as oil test. 1/
15-201	Jack Stanford	Ted Morod	1951	183	--	183	Ktp	1,330	12	1951	C, W	D, S	Completed from 182 to 183 ft.
* 702	City of Burnet	J. R.-Bob-Johnson Drilling and Supply	1937	74	12 10	-- 74	do.	1,294	27 30.60	May 31, 1961 Feb. 27, 1969	T, E 15	P	Completed from 68 to 74 ft. Reported yield 215 gpm. Well dried up in 1956. Used as stand-by well. Texas Water Development Board observation well. 4/
705	Mrs. R. S. Bowden	--	--	178	8	--	do.	1,318	53.96	Aug. 1, 1961	T, E	Irr	Yield 47 gpm. Temp. 69°F. 3/
740	M. K. Orman	Smart Drilling and Supply	1968	128	7 5	101 128	P	1,345	90	Apr. 26, 1968	Sub, E 1	D	Slotted from 104 to 128 ft. Bailing level 97 ft at 20 gpm on Apr. 26, 1968. Pump set at 115 ft. 1/
801	J. W. Boss	Wright Drilling Co.	1960	329	5	329	Ktp	1,450	267	Aug. 24, 1961	--	D, S	Reported yield 20 gpm.
* 16-801	Burnet County WCID No. 1	do.	1954	507	10 8	365 490	do.	1,280	251 260.92	Nov. 4, 1954 Mar. 25, 1968	Sub, E	P	Slotted from 310 to 315, 340 to 350, and 365 to 490 ft. Pumping level 452 ft at 50 gpm on Nov. 4, 1954. Temp. 75°F. Texas Water Development Board observation well. 1/ 2/ 4/
901	A. K. Bouthe	--	--	330	8	--	do.	1,229	101 114.65	Apr. 19, 1961 Mar. 3, 1969	C,W,E	N	Texas Water Development Board observation well. 4/
* 23-203	Texas Highway Department	Boss Sanford	1951	356	6	340	do.	1,505	295.1 296.2	Mar. 8, 1966 Mar. 5, 1969	Sub, E 1-1/2	Ind	Slotted from 300 to 340 ft. Pump set at 339 ft. Temp. 70°F. Texas Water Development Board observation well. 4/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* BT-57-24-101	City of Bertram	Wright Drilling Co.	1958	480	10	360	Ktp	1,298	164 185.05	Mar. 10, 1961 Mar. 4, 1969	Sub, E 10	P	Perforated from 256 to 287, 290 to 348 ft, and open hole from 360 to 480 ft. Pump set at 440 ft. Reported yield 50 gpm. Temp. 73°F. Texas Water Development Board observation well. 1/ 3/ 4/
103	Burnet County WCID No. 1	do.	1962	550	--	--	do.	1,298	197.85 187.47	Mar. 8, 1966 Mar. 4, 1969	Sub, E 10	P	Pumping level 245 ft at 50 gpm on Feb. 17, 1965. Pump set at 400 ft. Texas Water Development Board observation well. 3/ 4/
* 201	do.	R. J. Bostic	1910	430	8	--	do.	1,262	350 348.7	1946 Mar. 8, 1966	C, E	N	Reported yield 10 gpm. Abandoned.
* 202	do.	Layne Texas Co.	1944	469	8	350	do.	1,263	340 362.13	Jan. 15, 1946 Dec. 28, 1966	Sub, E 5	N	Open hole completion from 350 to 469 ft. Reported yield 14 gpm. Texas Water Development Board observation well until 1966. Plugged and abandoned. 1/ 2/ 4/
* 204	City of Bertram	--	1941	2,395	--	--	do.	1,260	--	--	N	N	Abandoned. 1/
801	C. D. Lester	Reuben Fisher	1953	456	7	418	do.	1,295	162 48.17	Apr. 27, 1961 Mar. 4, 1969	C, K 1-1/2	D, S	Open hole completion from 418 to 456 ft. Estimated yield 40 gpm. Texas Water Development Board observation well. 4/
58-01-101	Ray Cowan	Central Texas Drilling Co., Inc.	1968	200	8	20	do.	860	31.3	May 15, 1968	--	D	Open hole completion from 20 to 200 ft. 2/
501	do.	do.	1968	130	8	23	do.	835	20 10.54	Apr. 1968 May 15, 1968	N	N	Open hole completion from 23 to 130 ft. Well drilled as test hole. Abandoned. 1/ 2/
502	do.	do.	1968	133	7	100	do.	835	10.63	May 15, 1968	--	Irr	Open hole completion from 100 to 133 ft. Reported yield 158 gpm. 1/
503	do.	do.	1968	145	7	40	do.	835	11.61	do.	--	Irr	Open hole completion from 40 to 145 ft. Reported yield 40 gpm. 1/ 2/
504	F. D. Breedlove	Dixon Pump and Drilling Co.	1963	521	12 2	521 320	do.	1,080	230	May 28, 1963	C, W	D, S	Pumping level 455 ft at 200 gpm on May 29, 1963.
* 801	Carl Steward	Harrison Well Service	1966	508	6	20	do.	1,122	241.62 256.7	Mar. 4, 1966 Mar. 3, 1969	C, W	D	Open hole completion 20 to 508 ft. Reported yield 20 gpm. Temp. 81°F. Texas Water Development Board observation well. 4/

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I
4/ For water-level measurements, see Table 4.

BURNET COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

D, Drillers'; E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
BT-58-01-301	E. A. Dunnam	John Hunt No. 1	1958	1,245	915	E
302	E. A. Dunnam and Henson Drilling Co.	Day No. 1	1955	4,793	909	E
601	Parker Petroleum Co. Inc.	Williams No. 1	1956	3,559	968	E
602	Bur-Tex Oil Co.	W. C. Dillingham No. 1	1929	1,071	1,065	D

Table 3.—Drillers' Logs of Selected Wells

Well BT-57-08-801

Owner: Bill Bryson
Driller: Twin City Oil and Gas Co.
(Complete log not shown)

	THICKNESS (FEET)	DEPTH (FEET)
White and yellow clay	25	25
White soft lime	15	40
Gray hard lime	22	62
Gray lime and shells	63	125
Gray clay and shells	115	240
Gray sand (water at 264 ft)	80	320
White soft sand	26	346
Gray hard lime	10	356
Gray shale	10	366
Gray shells	14	380
Red clay	5	385
Gray hard shells	40	425
Gray sand (water at 435 ft)	20	445
White hard lime	15	460
Black hard lime	28	488
Black soft slate	5	493
Black hard lime	57	550
Black soft slate	25	575
Brownish gray lime coarse	15	590
Light gray lime fine	60	650
White sandy lime fine	25	675
White soft lime coarse	25	700
White lime fine	105	805
Light gray lime coarse	45	850
Light gray lime medium	5	855
Brownish grayish lime coarse	20	875
White lime fine	40	915
Brownish gray lime	25	940
Gray lime medium	10	950
Brownish gray lime medium	45	995
Brownish gray lime coarse	35	1,030
Gray lime medium	20	1,050
Brownish gray coarse	22	1,062
Light brownish gray lime medium	18	1,090
Gray fine lime	3	1,093

Well BT-57-15-740

Owner: M. K. Orman
Driller: Smart Drilling and Supply

	THICKNESS (FEET)	DEPTH (FEET)
Yellow clay	14	14
Gray shale	8	22
Soft sandy	3	25
Gray sandy rock	5	30
Sandy shale	10	40
Hard rock	2	42
Soft	3	45
Sandy rock	10	55
Hard and soft sandrock	15	70
Red bed	15	85
White rock	5	90
Gravel granite	5	95
Hard rock	5	100
Yellow	13	113
Hard - water	7	120
Hard	8	128

Well BT-57-16-801

Owner: Burnet County WCID No. 1
Driller: Wright Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
No record	310	310
Sand	5	315
Sand	115	430
Good sand	30	460
Cap rock	8	468
Sand	5	473
Cap rock	29	502
Sand	5	507

Well BT-57-24-101

Owner: City of Bertram
Driller: Wright Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Black loam top soil	2	2
White limestone	4	6
Caliche	15	21
White limestone	10	31
Blue shale	16	47
Sugar sand - some water	17	64

Table 3.—Drillers' Logs of Selected Wells in Burnet County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well BT-57-24-101—Continued		
Blue shale	7	71
Layers of limestone and shale	164	235
Dry sand	5	240
Shale	16	256
Coarse sand and water	11	267
Shale	23	290
Sand	6	296
Layers of sand and limestone	52	348
Limestone	47	395
Sand rock	45	440
Coarse sand	11	451
Gray shale	29	480
Well BT-57-24-202		
Owner: Burnet County WCID No. 1 Driller: Layne Texas Co.		
Top soil	1	1
White limestone	16	17
Soft gray shale	3	20
Rock ledges, sand shale	32	52
Green sandy shale	7	59
Water sand, very fine	10	69
Sand rock	1	70
Shale rock ledges - 6 in. thick	8	78
Hard shell bed	3	81
Broken formation - shale rock	69	150
Sand shale	5	155
Broken formation shale shell beds	70	225
Hard rock	7	232
Sandy shale	5	237
Shell beds	7	244
Crystal rock (white)	16	260
Shell and shale	15	275
Hard rock	5	280
Sticky shale	4	284
Crystal rock	6	290

	THICKNESS (FEET)	DEPTH (FEET)
Well BT-57-24-202—Continued		
Soft sandy shale	10	300
Broken formations	25	325
Green shale	2	327
Fine sand - little water	8	335
Gray sandy shale	3	338
Water sand - rock ledges	22	360
Coarse water sand - crystal rock	10	370
Green sandy shale	13	383
Shell bed - crystal rock	2	385
Green shale - shells - sticky	5	390
Light green sandstone	10	400
Coarse sand	2	402
Green sandstone - crystal rock	31	433
Hard sandstone	7	440
Crystal rock with some shale	13	453
Hard blue lime rock	4	457
Sticky green shale	12	469
Well BT-57-24-204		
Owner: City of Bertram Driller: Unknown		
White limestone, water	33	33
White limestone	6	39
White limestone and shale	40	79
Fine grain sand, water	11	90
Shale, limestone	160	250
Gray limestone	73	323
Blue shale	20	343
Gray limestone	62	405
Gray mud	5	410
Hard rock	5	415
Break	1	416
Gray limestone	22	438
Gray limestone	9	447
Fine grain water sand	3	450

Table 3.—Drillers' Logs of Selected Wells in Burnet County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well BT-57-24-204—Continued		
Dark gray limestone	10	460
Water	4	464
Dark gray limestone	6	470
Shale, limestone	15	485
Dark gray limestone	10	495
Green shale	8	503
Shale and limestone	30	533
Red bed	27	560
Brown limestone	8	568
Gray limestone	37	605
Tan colored	35	640
Red shale and limestone	10	650
Dark limestone	4	654
Shale caves badly	141	795
Hard shale	35	830
Hard shale with soft spots	60	890
Sandy shale	15	905
Sandy rock	15	920
Lead soft and sticky	2	922
Blue rock	3	925
Sticky shale	6	931
Boulders and shale	17	948
Shale	3	951
Boulders and shale	5	956
Hard and soft shale	134	1,090
Sandstone and shale	25	1,115
Shale	19	1,134
Hard shale	4	1,138
Shale	12	1,150
Slate and shale	10	1,160
Shale	30	1,190
Slate and shale	10	1,200
Shale and slate	61	1,261
Hard rock	13	1,274
Shale and slate	46	1,320
Hard rock	9	1,329
Sandy shale	21	1,350
Hard sandy shale	50	1,400
Hard shale and rock	10	1,410
Soft shale	17	1,427
Hard shale	340	1,767
Schist (core showed quartzite)	628	2,395
Well BT-58-01-501		
Owner: Ray Cowan Driller: Central Texas Drilling Co., Inc.		
Soil and alluvium	20	20
Limestone (Glen Rose)	86	106
Sand (Hensell)	22	128
Very hard limestone (Ellenberger or Cow Creek)	2	130
Well BT-58-01-502		
Owner: Ray Cowan Driller: Central Texas Drilling Co., Inc.		
Soil	5	5
Clay and caliche	10	15
Loose caving gravel	6	21
Limestone and dolomite	55	76
Limestone with breaks of fine sand	24	100
Limestone with 1 to 2 in. cavities	33	133
Well BT-58-01-503		
Owner: Ray Cowan Driller: Central Texas Drilling Co., Inc.		
Soil	10	10
Gravel	15	25
Blue shale	9	34
Lime	56	90
Broken limestone (water)	35	125
Limestone	20	145
Well BT-58-01-602		
Owner: W. C. Dillingham Driller: Bur-Tex Oil Co.		
Surface soil	5	5
Light gray lime	335	340
Dark gray lime	5	345

Table 3.—Drillers' Logs of Selected Wells in Burnet County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well BT-58-01-602—Continued		
Gray water sand, contains water	10	355
Light gray lime, shows oil asphalt	5	360
Hard gray lime	40	400
Lime and shale	60	460
Green sandy shale	5	465
Gray lime	7	472
Glassy water sand had a thin streak of gray sand at 500 ft., shows oil	43	515
Light gray lime	28	543
Gray sand (dry)	5	548
Gray lime	12	560
Red sandy shale, shows rainbows	27	587
Hard conglomerate lime, beds of large gravel	5	592
Hard brown and gray sand, contains water	8	600
Conglomerate of sandy lime, beds of large gravel	28	628
Red mud	7	635
Dark gray shale	22	657
Hard gray sand (dry)	39	696
Hard black shale	14	710
Hard gray sand, contains small amount water	16	726
Hard black shale, small showing oil at 757 ft	345	1,071

BURNET COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

Well BT-41-63-901

Owner: H. V. Campbell

DATE	WATER LEVEL
Apr. 27, 1961	145
Mar. 6, 1969	151.0

Well BT-41-64-801

Owner: Ira Hopper

DATE	WATER LEVEL
Apr. 20, 1961	31
Mar. 7, 1966	29.55
Mar. 7, 1969	29.1

Well BT-57-15-702

Owner: City of Burnet

DATE	WATER LEVEL
May 31, 1961	27
Aug. 6, 1962	47.26
Aug. 10, 1962	49.81
Aug. 13, 1962	39.54
Aug. 14, 1962	39.76
Aug. 17, 1962	49.83
Aug. 21, 1962	39.85
Aug. 26, 1962	40.15
Sept. 11, 1962	37.36
Sept. 24, 1962	39.07
Oct. 1, 1962	38.82
Nov. 24, 1962	37.00
Jan. 3, 1963	36.38
Jan. 22, 1963	36.10
Feb. 1, 1963	36.16
Feb. 5, 1963	36.46
Feb. 19, 1963	36.14
Feb. 26, 1963	36.35
Mar. 19, 1963	36.22
Apr. 2, 1963	37.60
May 24, 1963	38.56
June 6, 1963	39.46
June 18, 1963	40.46

Well BT-57-15-702—Continued

DATE	WATER LEVEL
July 5, 1963	39.95
July 15, 1963	40.49
July 20, 1963	40.50
July 25, 1963	40.50
July 30, 1963	40.38
Aug. 5, 1963	45.10
Aug. 12, 1963	45.10
Aug. 20, 1963	42.60
Aug. 27, 1963	40.40
Sept. 6, 1963	47.25
Sept. 19, 1963	45.73
Oct. 2, 1963	45.35
Oct. 15, 1963	46.10
Oct. 28, 1963	45.30
Nov. 10, 1963	45.93
Dec. 4, 1963	43.30
Dec. 24, 1963	42.76
Jan. 6, 1964	42.47
Jan. 20, 1964	42.50
Feb. 13, 1964	41.57
Feb. 27, 1964	41.00
Mar. 11, 1964	41.00
Mar. 31, 1964	40.70
Apr. 14, 1964	40.25
Apr. 28, 1964	40.85
May 14, 1964	40.45
June 19, 1964	41.45
July 11, 1964	45.10
Aug. 12, 1964	48.80
Sept. 10, 1964	49.50
Nov. 6, 1964	45.62
Dec. 7, 1964	44.00
Jan. 20, 1965	42.70
Feb. 26, 1965	40.25

Well BT-57-15-702—Continued

DATE	WATER LEVEL
Mar. 9, 1965	38.85
Apr. 13, 1965	36.65
May 10, 1965	35.90
June 8, 1965	31.38
July 16, 1965	33.20
Sept. 27, 1965	36.35
Oct. 15, 1965	36.00
Nov. 22, 1965	34.35
Dec. 23, 1965	33.22
Jan. 25, 1966	32.50
Mar. 9, 1966	30.36
Mar. 28, 1966	32.25
May 25, 1966	29.20
July 15, 1966	41.00
Sept. 23, 1966	43.20
Sept. 28, 1966	34.94
Nov. 3, 1966	35.60
Nov. 22, 1966	35.72
Dec. 28, 1966	35.85
Jan. 11, 1967	36.65
Feb. 9, 1967	35.50
Mar. 15, 1967	37.55
May 4, 1967	38.21
May 31, 1967	38.50
July 18, 1967	45.60
Aug. 11, 1967	48.80
Sept. 14, 1967	47.14
Oct. 5, 1967	45.63
Nov. 8, 1967	44.66
Dec. 6, 1967	44.00
Jan. 16, 1968	43.50
Feb. 7, 1968	39.87
Mar. 25, 1968	32.85
Apr. 18, 1968	30.60

Table 4.—Water Levels in Selected Wells in Burnet County—Continued

DATE	WATER LEVEL
Well BT-57-15-702—Continued	
May 21, 1968	26.50
June 24, 1968	25.10
Aug. 28, 1968	30.50
Sept. 20, 1968	30.00
Oct. 24, 1968	30.00
Nov. 22, 1968	30.00
Dec. 20, 1968	30.30
Jan. 21, 1969	30.10
Feb. 27, 1969	30.60
Well BT-57-16-801	
Owner: Burnet County WCID No. 1	
Nov. 4, 1954	251
Mar. 8, 1966	253.85
Mar. 25, 1968	260.92
Well BT-57-16-901	
Owner: A. R. Boothe	
Apr. 19, 1961	301
Mar. 7, 1966	175.55
Mar. 25, 1968	113.25
Mar. 3, 1969	114.65
Well BT-57-23-203	
Owner: Texas Highway Department	
Mar. 8, 1966	295.1
Mar. 25, 1968	293.20
Mar. 5, 1969	296.2
Well BT-57-24-101	
Owner: City of Bertram	
Mar. 10, 1961	164
Mar. 8, 1966	192.37
Mar. 25, 1968	207.43
Mar. 4, 1969	185.05
Well BT-57-24-103	
Owner: Burnet County WCID No. 1	
Mar. 8, 1966	197.85
Mar. 25, 1968	215.10
Mar. 4, 1969	187.47
Well BT-57-24-202	
Owner: Burnet County WCID No. 1	
Jan. 15, 1946	340
Mar. 3, 1966	349.25
Aug. 31, 1966	350.54
Well BT-57-24-202—Continued	
Sept. 28, 1966	350.40
Nov. 2, 1966	353.49
Nov. 22, 1966	354.75
Dec. 28, 1966	362.13
Well BT-57-24-801	
Owner: C. D. Lester	
Apr. 27, 1961	162
Mar. 9, 1966	41.62
Mar. 4, 1969	48.17
Well BT-58-01-801	
Owner: Carl Steward	
Mar. 4, 1966	241.62
Aug. 31, 1966	260.5
Sept. 28, 1966	253.7
Nov. 2, 1966	256.6
Nov. 22, 1966	256.1
Dec. 28, 1966	259.5
May 4, 1967	261.0
June 8, 1967	265.4
June 30, 1967	273.5
Sept. 14, 1967	280.2
Nov. 8, 1967	268.8
Dec. 6, 1967	266.9
Jan. 16, 1968	263.1
Feb. 7, 1968	236.9
Mar. 3, 1969	256.7

BURNET COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

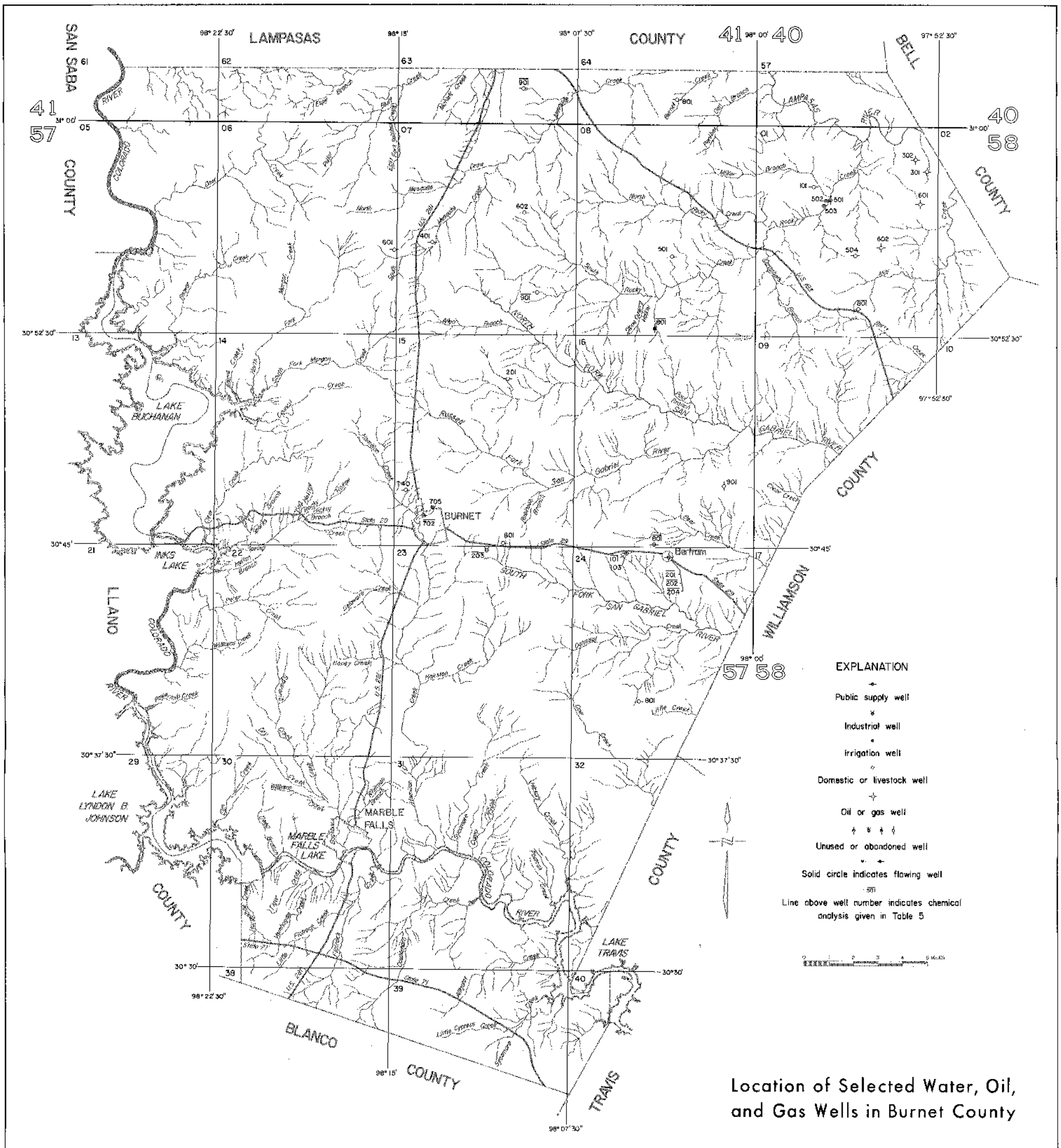
Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (Ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
1/ BT-41-63-901	180	--	Kgp	--	--	--	--	--	--	--	29	395	--	--	--	968	--	--	--	--	--	--
57-07-901	346	Sept. 18, 1968	do.	12	--	85	49	16	--	346	112	38	0.9	< 0.4	--	483	--	414	8	812	7.5	0.3
2/ 08-801	2,285	1942	P	--	--	70	29	* 17	--	342	19	22	--	--	--	--	--	326	11	--	--	.4
15-702	74	Apr. 30, 1938	Ktp	12	0.04	94	33	* 9	--	397	19	7.1	< .2	44.0	--	452	413	370	5	--	7.1	.2
702	74	Oct. 29, 1940	do.	11	.05	95	35	* 32	--	439	14	36	< .4	31.0	--	422	470	331	15	--	7.3	.7
702	74	Dec. 6, 1950	do.	14	.03	93	35	* 32	--	439	23	36	.2	12.0	--	470	461	376	16	--	7.2	.7
702	74	July 2, 1961	do.	--	.08	22	10	20	--	0	15	33	.4	22.0	--	195	--	94	31	325	9.3	.9
2/ 16-801	507	Nov. 6, 1954	do.	17	.0	52	31	* 15	--	345	39	224	1.1	.8	--	719	550	257	11	1,310	8.0	.4
23-203	356	Sept. 18, 1968	do.	16	--	84	30	14	--	387	16	20	.2	2.0	--	372	--	334	8	643	7.4	.3
24-101	480	do.	do.	23	--	65	37	22	--	345	40	30	.6	< .4	--	388	--	316	13	664	7.5	.5
2/ 201	430	Jan. 31, 1941	do.	--	32	49	27	* 71	--	352	32	46	.6	.0	--	399	430	233	40	--	--	2.0
202	469	June 1944	do.	26	2.0	67	39	* 48	--	280	59	64	--	2.0	--	458	445	328	24	--	8.1	1.2
204	--	June 23, 1941	do.	26	2.0	67	39	* 48	--	305	59	64	< .4	< .4	--	458	--	328	24	--	8.1	1.2
58-01-801	508	Mar. 4, 1966	do.	7	--	136	28	69	--	346	194	58	.8	84.0	--	770	747	456	25	1,300	7.3	1.4

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

1/ Laboratory unknown
2/ U.S. Geological Survey Laboratory



Location of Selected Water, Oil, and Gas Wells in Burnet County

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* BX-30-47-601	E. R. Battle	Fred Sprawls	1920	25	48	25	Ka	1,783	15 13.29	Mar. 19, 1940 Mar. 5, 1969	J, G 1/3	D, S	Dug well with brick wall from 25 ft to surface. Pump set at 22 ft. Temp. 59°F.
* 54-302	Caldwell Ranch	Cecil Gobel	1950	190	5	190	do.	2,005	31.53	Mar. 6, 1969	Sub, E 1/3	D, S	Slotted. Pump set at 100 ft. Temp. 66°F.
55-502	W. A. Gill	J and L Drilling Co.	1966	48	5	48	do.	1,801	13.14 11.65	Apr. 29, 1966 Mar. 11, 1969	Sub, E	D	Perforated from 32 to 40 ft. Gravel packed. Texas Water Development Board observation well. 1/ 2/
503	--	--	1927	82	--	--	do.	1,866	77.51 79.00	Mar. 29, 1966 Mar. 11, 1969	C, W	N	Texas Water Development Board observation well. 2/
901	City of Cross Plains	--	1950	60	8	60	do.	--	30	Oct. 5, 1959	J, E 1	P	Reported yield 15 gpm.
902	do.	--	1950	60	8	60	do.	--	30	do.	J, E 1	P	Do.
903	do.	--	1950	60	8	60	do.	--	30	do.	J, E 1	P	Do.
904	do.	--	1950	60	7	60	do.	--	30	do.	J, E 1-1/2	P	Do.
905	do.	--	1950	60	7	60	do.	--	30	do.	Sub, E 1/2	P	Completed from 40 to 55 ft. Reported yield 15 gpm.
906	do.	--	1950	60	7	60	do.	--	30	do.	Jet, E 1	P	Slotted from 40 to 55 ft. Reported yield 15 gpm.
907	do.	--	1950	65	7	65	do.	--	30	do.	J, E 1-1/2	P	Do.
908	do.	J and L Drilling Co.	1950	65	7	65	do.	--	--	--	Sub, E 1	P	Do.
909	do.	--	1950	65	7	65	do.	--	--	--	J, E 1-1/2	P	Slotted from 40 to 55 ft.
910	do.	--	1950	65	7	65	Ka	--	--	--	J, E 1-1/2	P	Do.
911	do.	J and L Drilling Co.	1964	70	7	70	do.	--	--	--	Sub, E 1/2	P	Slotted from 45 to 60 ft. Pump set at 63 ft. Gravel packed. Cemented from 40 ft to surface.
* 912	do.	E. E. Thate	1940	48	8 10	28 48	do.	--	--	--	J, E 1-1/2	P	Perforated from 28 to 48 ft.
913	do.	J and L Drilling Co.	1964	70	7	70	do.	--	--	--	Sub, E 1/2	P	Slotted from 40 to 60 ft. Pump set at 63 ft. G Gravel packed. Cemented from 40 ft to surface. 1/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	BX-30-55-914	City of Cross Plains	J and L Drilling Co.	1964	70	7	70	Ka	--	--	--	Sub, E 1/2	P	Slotted from 50 to 65 ft. Pump set at 63 ft. Gravel packed. Cemented from 40 ft to surface.
	915	do.	do.	1964	70	7	70	do.	--	--	--	Sub, E 1/2	P	Do.
	916	do.	do.	1964	70	7	70	do.	--	--	--	Sub, E 1/2	P	Do.
*	917	do.	do.	1964	70	7	70	do.	--	17.41	Mar. 3, 1969	Sub, E 1/2	P	Slotted from 40 to 60 ft. Pump set at 63 ft. Gravel packed. Cemented from 40 ft to surface. Temp. 66°F.
*	918	do.	--	1926	50	60	35	do.	--	--	--	J, E	P	Dug well with brick wall from 35 ft to surface. Open hole from 35 to 50 ft.
*	919	do.	--	1926	49	48 8	49 49	do.	--	--	--	N	N	A drilled well and a dug well 10 ft apart and connected by a 4 in. tunnel. Eight in. perforated casing below water.
*	920	do.	City Employees	1938	44	60	39	do.	--	32	Sept. 4, 1940	N	N	Dug well with brick wall from 39 ft to surface. Open hole from 39 to 44 ft.
*	921	do.	Ben Welch	1926	48	8	48	do.	--	--	--	J, E 1-1/2	P	Perforated.
*	922	do.	E. E. Thate	1940	47	8 10	27 47	do.	--	--	--	J, E 1-1/2	P	Perforated from 27 to 47 ft.
	923	do.	--	--	50	72	--	do.	1,747	30 13.75	Oct. 5, 1959 Mar. 11, 1969	J, E 2	P	Dug well. Reported yield 15 gpm. Texas Water Development Board observation well. 2/
*	924	do.	--	--	50	48	--	Ka	--	30	Oct. 5, 1959	J, E 2	P	Dug well. Reported yield 15 gpm.
	63-303	do.	--	1945	62	8	62	do.	1,768	30	do.	J, E 2	P	Reported yield 15 gpm.
*	304	do.	--	1945	50	8	50	do.	1,768	30	do.	J, E 2	P	Do.
	305	do.	--	1941	61	8	61	do.	1,768	30	do.	J, E 2	P	Do.
	306	do.	--	1941	66	8	66	do.	1,772	30	do.	J, E 2	P	Do.
	307	do.	J and L Drilling Co.	1963	70	7	70	do.	1,773	--	--	Sub, E 1/2	P	Slotted from 40 to 60 ft. Pump set at 63 ft. Gravel packed. Cemented from 40 ft to surface.
	308	do.	do.	1963	70	7	70	do.	1,773	--	--	Sub, E 1/2	P	Do.
*	309	Dale Crawford	Curtis Alford Drilling and Well Service	1962	80	8 5	40 80	do.	1,772	44.70	Mar. 3, 1969	J, E 1/2	D	Perforated from 50 to 70 ft. Pump set at 70 ft. Gravel packed. Cemented from 40 ft to surface. Temp. 64°F.

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ For water-level measurements, see Table 4.

CALLAHAN COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
BX-30-46-901	Frank Ausanka, et al.	Caldwell No. 2	1954	2,781	2,194	E
54-301	Star Oil Co.	Caldwell No. A-1	1949	1,808	2,037	E
55-301	Sunray Oil Co.	C. E. Aspin No. 1	1948	4,151	1,994	E
601	Irvin Producing Co. and Western Natural Gas Co.	Ben Lester No. 1	1960	2,850	1,793	E
701	Harding Brothers	Cornelouis No. 1	1954	1,790	1,797	E

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)
Well BX-30-55-502		
Owner: W.A. Gill Driller: J and L Drilling Co.		
Silt	2	2
Pack sand	18	20
Sand water	20	40
Shale	8	48

	THICKNESS (FEET)	DEPTH (FEET)
Well BX-30-55-913		
Owner: City of Cross Plains Driller: J and L Drilling Co.		
Caliche and gravel	15	15
Yellow sandy clay	25	40
Sand with some gravel	20	60
Red shale	10	70

CALLAHAN COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

DATE	WATER LEVEL
Well BX-30-55-502	
Owner: W.A. Gill	
Apr. 29, 1966	13.14
Mar. 11, 1969	11.65
Well BX-30-55-503	
Owner: Unknown	
Mar. 29, 1966	77.51
Mar. 15, 1967	77.58
Mar. 21, 1968	77.20
Mar. 11, 1969	79.00
Well BX-30-55-923	
Owner: City of Cross Plains	
Oct. 5, 1959	30
Apr. 29, 1966	16.73
Nov. 29, 1966	16.68
Jan. 4, 1967	16.71
Feb. 7, 1967	16.74
Mar. 15, 1967	16.80
May 4, 1967	16.62
Oct. 3, 1967	18.19
Nov. 7, 1967	17.87
Jan. 3, 1968	17.77
Feb. 5, 1968	16.23
Mar. 21, 1968	14.15
Mar. 11, 1969	13.75

CALLAHAN COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
1/ BK-30-47-601	25	Mar. 19, 1940	Ka	--	--	206	65	* 257	--	445	135	590	--	< 20	--	1,479	--	785	42	--	--	4.0
601	25	Mar. 5, 1969	do.	40	--	104	31	198	--	455	99	214	0.9	70	--	980	--	388	53	1,550	7.4	4.4
54-302	190	Mar. 6, 1969	do.	27	--	309	10	15	2	322	30	104	.3	539	--	1,190	--	810	4	1,600	7.1	0.2
2/ 55-912	48	Sept. 4, 1940	do.	--	--	134	21	* 46	--	409	39	96	.3	--	--	553	--	423	19	--	--	1.0
917	70	Mar. 3, 1969	do.	29	0.06	95	14	36	--	349	22	36	1.3	3.5	--	409	--	296	21	675	7.4	.9
2/ 918	50	Sept. 4, 1940	do.	--	--	85	16	* 88	--	378	51	64	.6	21	--	512	--	280	41	--	--	2.3
2/ 919	49	do.	do.	--	--	124	19	* 129	--	488	89	110	.7	23	--	735	--	387	42	--	--	2.8
2/ 920	44	do.	do.	--	--	198	26	* 187	--	567	140	270	.6	< 20	--	1,118	--	601	40	--	--	3.3
2/ 921	48	do.	do.	--	--	196	26	* 140	--	494	117	250	.5	24	--	997	--	596	34	--	--	2.5
2/ 922	47	do.	do.	--	--	171	25	* 133	--	531	70	210	.4	20	--	890	--	531	35	--	--	2.5
2/ 924	50	Feb. 5, 1946	do.	19	.03	99	13	76	6.2	403	48	57	.4	15	--	529	--	300	35	--	7.0	1.9
2/ 63-304	50	do.	do.	11	.04	227	23	138	12	520	128	283	.2	23	--	1,150	--	661	31	--	7.0	2.3
309	80	Mar. 3, 1968	do.	20	.21	142	19	87	--	265	82	217	.5	< 0.4	--	700	--	433	31	1,190	7.0	1.8

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

1/ The University of Texas
2/ U. S. Geological Survey Laboratory

CALLAHAN COUNTY

Table 6.—Chemical Analyses of Oil-Field Brines

(Analyses are given in parts per million except pH)

SYSTEM	PRODUCING ZONE	FIELD	AVERAGE DEPTH (FT)	AREA SHOWN ON FIGURE 18, VOLUME I	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	TOTAL DISSOLVED SOLIDS	pH
Permian[b]	Tannehill	Morrisett	1,609	K-1 and P-1	4,159	1,417	28,530	99	6	55,400	—	7.0
Do.[c]	do.	do.	1,623	K-1 and P-1	4,128	1,256	27,320	139	6	52,950	—	7.1
Do.[b]	do.	Red Horse	1,047	P-3	5,360	1,099	30,785	83	7	60,100	—	7.0
Do.[b]	do.	Three Acres	—	K-1	5,720	1,370	34,100	80	655	66,300	119,800	6.5
Do.[b]	do.	S. E. Clyde	1,312	K-1	6,520	2,106	35,402	105	680	71,800	—	6.8
Do.[b]	do.	N. of Baird	—	P-3	4,750	1,120	27,000	300	0	53,300	92,500	6.3
Do.[b]	Flippen	Three Acres	1,682	K-1	7,310	1,660	38,000	146	0	76,200	132,800	6.2
Do.[b]	Cook Sand	Brock	—	K-1	4,993	1,333	39,445	78	0	73,500	120,000	7.4
Do.[b]	Tannehill	Wagley	—	P-3	3,673	1,384	21,180	21	19	44,050	—	5.3
Do.[b]	U. Tannehill	Regular	—	?	5,860	1,090	34,600	85	0	66,900	112,000	6.2
Do.[b]	L. Tannehill	do.	—	?	5,360	1,120	34,800	85	0	66,400	112,000	6.7
Do.[b]	Flippen	Wildcat	1,763	?	4,390	1,070	29,400	95	340	50,000	85,000	6.8
Do.[b]	Cook Sand	Regular	—	?	5,750	1,440	35,290	85	0	69,100	124,800	6.0
Pennsylvanian[a]	U. Fry	—	—	P-3	5,800	870	—	220	122	61,370	108,800	6.0
Do.[a]	do.	—	—	P-3	4,300	600	—	292	78	41,245	82,000	6.3
Do.[b]	King	Morrisett	1,956	K-1 and P-1	7,793	1,780	33,270	94	92	70,100	—	6.8
Do.[b]	Home Creek	Brock and Eula Lower Hope	—	K-1	3,354	1,143	32,498	312	275	59,000	96,000	6.7
Do.[b]	do.	do.	—	K-1	2,189	820	32,586	124	40	60,000	95,817	7.2
Do.[b]	Moran Sand	Red Horse	2,680	P-3	10,880	1,941	39,648	93	69	85,550	—	6.5
Do.[b]	do.	Red Horse	2,700	P-3	10,085	1,586	36,295	72	110	78,370	—	5.8
Do.[b]	Cross Plains	Baum	—	K-3 and P-4	4,800	1,205	32,100	70	740	60,980	105,150	6.0
Do.[b]	do.	Cross Plains (McKinney)	1,530	K-3 and P-4	3,920	2,350	31,000	124	45	60,500	97,900	6.25
Do.[b]	Fry Sand	1.5 SE Eula	—	K-1	2,930	775	30,000	180	2,730	51,700	91,200	7.0
Do.[c]	Lake	Red Horse	4,190	P-3	4,625	706	16,420	47	337	35,200	—	5.2
Do.[b]	Cisco Sand	Regular	—	?	5,120	1,170	30,400	150	120	60,200	102,800	6.6
Do.[b]	Moran Sand	Herr-King	2,350	P-3	8,787	1,518	32,030	66	329	69,085	111,815	6.15

Table 6.—Chemical Analyses of Oil-Field Brines in Callahan County—Continued

SYSTEM	PRODUCING ZONE	FIELD	AVERAGE DEPTH (FT)	AREA SHOWN ON FIGURE 18, VOLUME I	CALCIUM (Ca)	MAG-NESIUM (Mg)	SODIUM (Na)	BICAR-BONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	TOTAL DISSOLVED SOLIDS	pH
Pennsylvanian[b]	Winchell	Elmdale	–	K-1 and P-1	2,960	1,000	30,750	528	750	54,700	94,500	6.0
Do.[b]	Palo Pinto	Box	3,300	P-1	11,680	2,041	20,010	117	148	81,650	97,649	–
Do.[b]	do.	Regular	-	?	3,280	1,500	32,600	150	0	60,500	100,800	7.3
Do.[b]	do.	Elmdale	3,270	P-1	15,000	1,980	40,300	795	476	93,500	167,700	6.1
Do.[b]	Cross Cut	Herr-King	2,580	P-3	9,324	2,889	36,650	195	189	79,430	–	6.0
Do.[b]	Fry Sand	Regular	–	?	5,960	1,395	34,240	110	36	67,400	118,300	5.0
Do.[b]	Jennings Sand	Silver Valley	–	?	15,100	2,160	49,400	290	85	109,000	195,000	6.4
Do.[b]	Lake	Speed Findley	3,800	P-3	13,355	2,723	43,661	109	85	98,759	–	6.7
Do.[b]	Bend	1X Con-glomerate	4,356	?	12,360	2,856	37,330	15	145	95,000	147,700	4.75
Do.[b]	Conglomerate	1X Con-glomerate	4,362	?	10,560	2,180	32,400	66	175	74,900	–	5.3
Ordovician[a]	Ellenberger	Red Horse	4,442	P-3	2,288	1,388	22,944	480	1,592	42,034	71,280	7.03
Do.[b]	do.	do.	4,396	P-3	3,240	1,685	22,000	392	1,855	43,300	–	6.6
Do.[b]	do.	do.	4,460	P-3	2,316	564	23,110	60	1,064	39,300	–	6.8
Do.[b]	do.	Three Acres	–	K-1	2,200	554	25,100	393	1,250	43,000	75,300	7.7
Do.[c]	do.	Red Horse	4,410	P-3	2,200	400	23,040	81	1,390	39,520	–	7.8
Do.[c]	do.	Hatchett	4,420	K-2 and P-3	6,890	1,752	21,200	50	359	49,700	–	6.8
Do.[c]	do.	Red Horse	4,442	P-3	2,735	733	22,260	121	1,685	40,020	–	5.8
Do.[b]	do.	Oplin	3,875	None	2,100	362	24,900	312	474	42,600	–	7.1
Do.[b]	do.	Oplin SE	4,190	None	1,700	690	22,500	483	1,400	38,500	60,500	7.58

[a] Analyses obtained from data accompanying Railroad Commission of Texas' 1967 Salt Water Production and Disposal questionnaires.
[b] Analyses obtained from Laxson and others, 1960.
[c] Analyses obtained from BJ Service, Inc., 1960.

JONES COUNTY

SHACKELFORD COUNTY

99°37'30" 99°30' 99°22'30" 99°15' 99°07'30"

32°30' 32°22'30" 32°15' 32°07'30"

COUNTY

COUNTY

TAYLOR COUNTY

COLEMAN COUNTY

BROWN COUNTY

EASTLAND COUNTY

Buck Creek

Deadman Creek

Hubbard Creek

Cedar Creek

Pecan Bayou

Jim Ned Creek

Spring Creek

Valley Creek

Home Creek

Elm Creek

Sandy Creek

Hord Branch

Deep Creek

Pecan Creek

Dozier Creek

Battle Creek

Gilliland Creek

Flat Creek

Gilliland Creek

Cedar Creek

Pecan Bayou

Clyde

Baird

Putnam

Admiral

Lake Clyde

Dublin

Denton

Rowden

Cottonwood

Atwell

Cross Plains

U.S. 80

U.S. 283

U.S. 84

State 36

State 206

FM 18

FM 603

FM 604

FM 605

FM 2965

FM 2705

FM 2707

FM 880

FM 1176

FM 3223

FM 3200

FM 1584

County Road

EXPLANATION

Public supply well

Industrial well

Irrigation well

Domestic or livestock well

Oil or gas well

Unused or abandoned well

Solid circle indicates flowing well

501

Line above well number indicates chemical analysis given in Table 5

N

0 1 2 3 4 5 MILES

Location of Selected Water, Oil, and Gas Wells in Callahan County

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-31-51-308	Robert C. Atchison	Continental Water Well Drilling Co.	1966	160	8	160	Ktp	--	55	Mar. 13, 1966	--	Irr	Perforated from 36 to 160 ft. Pumping level 155 ft at 80 gpm on Mar. 13, 1966. Gravel packed. 1/
309	do.	do.	1966	200	8	180	do.	--	72.3 71.70	July 10, 1968 Mar. 24, 1969	--	Irr	Perforated from 40 to 180 ft. Reported yield 100 gpm. Gravel packed. Texas Water Development Board observation well. 1/ 4/
602	Norman Parks	N. L. Box Drilling Contractor	--	120	8	120	do.	--	72.23	July 22, 1965	Sub, E 1-1/2	Irr	Perforated from 60 to 100 ft. Pump set at 90 ft. Reported yield 115 gpm.
* 603	George Warren	do.	1965	56	7	56	do.	--	12 15	June 4, 1965 July 28, 1965	Sub, E 5	Irr	Slotted from 18 to 48 ft. Pumping level 50 ft at 120 gpm on July 10, 1965. Pump set at 47 ft. Gravel packed. 1/
604	do.	do.	1965	58	7	58	do.	--	39.64	July 28, 1965	Sub, E 3	Irr	Completed from 19 to 52 ft. Pump set at 50 ft. Reported yield 70 gpm. Gravel packed. 1/
* 605	R. A. Barnett	do.	1965	75	7	75	do.	--	15	do.	Sub, E 5	Irr	Slotted from 30 to 71 ft. Pump set at 68 ft. Reported yield 95 gpm. Power and yield test on Aug. 8, 1966. Gravel packed. Temp. 75°F. 1/ 5/
* 606	do.	do.	1965	75	7	75	do.	1,371	26.28 25.98	Mar. 23, 1966 Mar. 24, 1969	Sub, E 3	Irr	Slotted from 24 to 65 ft. Pump set at 68 ft. Reported yield 51 gpm. Power and yield test on Aug. 8, 1966. Gravel packed. Temp. 74°F. Texas Water Development Board observation well. 4/ 5/
* 607	Mrs. Rainey	Ardean Kimmell Irrigation Service	1964	90	8	90	do.	--	45.39	Aug. 9, 1965	Sub, E 3	Irr	Completed from 40 to 90 ft. Pump set at 80 ft. Gravel packed. Temp. 70°F.
608	do.	Robert Lee-Bob-Barnhill	1965	105	8	105	do.	--	42 39.8	June 2, 1965 Aug. 9, 1965	Sub, E 5	Irr	Completed from 39 to 53 and 65 to 95 ft. Pump set at 92 ft. Reported yield 100 gpm. Haydite packed. 1/
609	R. A. Barnett	N. L. Box Drilling Contractor	1965	78	8	78	do.	--	9	Dec. 28, 1965	Sub, E 1-1/2	Irr	Slotted from 20 to 74 ft. Pumping level 65 ft at 125 gpm on Dec. 28, 1965. Gravel packed. 1/
610	do.	do.	1965	63	7	63	do.	--	10	do.	Sub, E 3/4	Irr	Slotted from 20 to 60 ft. Pumping level 60 ft at 20 gpm on Dec. 28, 1965. Gravel packed. 1/
611	do.	do.	1966	75	7	75	do.	--	10	Jan. 3, 1966	Sub, E 3	Irr	Slotted from 26 to 72 ft. Pumping level 65 ft at 40 gpm on Jan. 3, 1966. Gravel packed. 1/
612	George Warren	do.	1966	45	7	45	do.	--	9	Feb. 28, 1966	--	Irr	Slotted from 14 to 29 ft. Pumping level 39 ft at 75 gpm on Feb. 28, 1966. Gravel packed. 1/
613	Arnold Butler	Continental Water Well Drilling Co.	1966	100	8	84	do.	--	10	Feb. 3, 1966	--	Irr	Perforated from 12 to 84 ft. Pumping level 75 ft at 110 gpm on Feb. 3, 1966. Gravel packed. 1/
802	-- Kirk	--	1906	100.5	5	--	do.	--	57	May 26, 1937	T, E 1/4	D, S	--
805	Ray Williams	Sam H. Smith Drilling Contractor	1965	170	8	170	P	--	10	Nov. 1965	Sub, E	Irr	Slotted. Reported yield 50 gpm. Gravel packed. Cemented from 10 ft to surface. 1/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-31-51-806	J. B. Hodges	M and L Drilling Co.	1964	251	8 7	153 251	Ktp, P	--	53.00	July 20, 1965	Sub, E 7-1/2	Irr	Completed from 40 to 55, 118 to 210 and 210 to 250 ft. Pump set at 240 ft. Reported yield 80 gpm. Gravel packed to 150 ft. 1/
807	do.	Ardeam Kimmell Irrigation Service	1964	149	10	149	do.	--	30	do.	Sub, E 3	Irr	Pump set at 135 ft. Reported yield 60 gpm. Gravel packed.
808	do.	M and L Drilling Co.	1964	150	10	150	do.	--	--	--	N	N	Completed from 0 to 150 ft.
901	Elvin Walker	Pate Water Well Service	1964	127	7	50	Ktp	1,328	1.05 + .98	Aug. 11, 1965 Mar. 26, 1969	R, G	Irr	Pump set at 30 ft. Estimated yield 120 gpm. Gravel packed. Texas Water Development Board observation well. 4/
902	do.	do.	1964	44	7	44	do.	--	3.15	Aug. 11, 1965	R, E 1	Irr	Completed from 6 to 44 ft. Pump set at 30 ft. Reported yield 50 gpm. Gravel packed.
52-201	R. W. Duke	R. W. Duke	1967	80	8	80	do.	--	--	--	Sub, E 2	Irr	Perforated from 60 to 80 ft. Pump set at 77 ft. Reported yield 12 gpm. Measured yield 12.1 gpm. Power and yield test on Aug. 17, 1967. Gravel packed. 5/
202	do.	do.	1966	96	8	96	do.	--	--	--	Sub, E 3	Irr	Perforated from 76 to 96 feet. Pump set at 93 ft. Reported yield 20 gpm. Measured yield 19.5 gpm. Power and yield test on Aug. 17, 1967. Gravel packed. 5/
203	do.	do.	1966	92	8	92	do.	--	88.0	Aug. 17, 1967	Sub, E 3	Irr	Perforated from 72 to 92 ft. Pump set at 89 ft. Measured yield 16 gpm. Power and yield test on Aug. 17, 1967. Gravel Packed. 5/
204	R. M. Pack	B. G. Watson	1966	100	8	100	do.	--	--	--	Sub, E 7-1/2	Irr	Slotted. Pump set at 89 ft. Power and yield test on Aug. 10, 1966. 5/
205	do.	do.	1966	106	8	106	do.	--	48.87	Sept. 10, 1968	Sub, E 10	Irr	Slotted. Pump set at 94 ft. Power and yield test on Aug. 10, 1966. Gravel packed. 5/
401	Ray Parks	N. L. Box Drilling Contractor	1961	84	7	84	do.	--	26.15 27.41	Oct. 6, 1965 June 28, 1966	Sub, E 7-1/2	Irr	Completed from 15 to 25 ft. Pump set at 76 ft. Reported yield 225 gpm. Measured yield 114.7 gpm. Power and yield test at sprinkler on Aug. 5, 1966. 5/
* 402	R. M. Higginbotham	--	1925	60	--	--	do.	--	34	May 21, 1937	--	D	--
403	Cedrick Bettis	A. L. Warner	1965	95	7	95	do.	--	--	--	Sub, E 7-1/2	Irr	Slotted. Gravel packed. 1/
404	do.	do.	1965	70	7	70	do.	--	--	--	Sub, E 5	Irr	Do.
405	Herman Gilder	Lightfoot and McCrum	1964	58	7	58	do.	--	--	--	--	Irr	Slotted from 8 to 52 ft. Gravel packed. 1/
406	do.	do.	1965	80	7	80	do.	--	19	Dec. 14, 1965	--	Irr	Slotted from 36 to 46 and 58 to 67 ft. Reported yield 70 gpm. Gravel packed. 1/
407	do.	Ardeam Kimmell Irrigation Service	1966	78	8	78	do.	--	--	--	--	Irr	Slotted from 15 to 67 ft. Gravel packed. 1/
* 408	N. B. Gilbreath	Lightfoot and McCrum	1967	80	8	80	Khe, Kho	--	--	--	Sub, E	Irr	Slotted from 20 to 24 and 60 to 71 ft. Reported yield 70 gpm. Gravel packed. 1/
* 409	do.	do.	1967	84	8	84	Kho	--	--	--	Sub, E	Irr	Slotted from 60 to 73 ft. Gravel packed. 1/
* 410	do.	do.	1967	80	8	80	do.	--	--	--	Sub, E	Irr	Slotted from 55 to 71 ft. Gravel packed. 1/
501	N. L. Box	N. L. Box Drilling Contractor	1953	90	7	90	Ktp	--	38.00	June 28, 1966	C, E 1-1/2	Irr	Completed from 42 to 48 and 58 to 77 ft. Pump set at 84 ft. Reported yield 40 gpm. Gravel packed. 1/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	DY-31-52-502	Clarence Craig	N. L. Box Drilling Contractor	1958	91	8	91	Ktp	---	35.68	July 14, 1965	Sub, E 3/4	Irr	Completed from 55 to 85 ft. Reported yield 40 gpm. Measured yield 11.1 gpm. Power and yield test on Aug. 8, 1966. Gravel packed. 1/ 5/
	503	N. L. Box	do.	--	83	7	83	do.	1,338	14.30 15.80	Oct. 12, 1965 Mar. 24, 1969	N	N	Completed from 40 to 83 ft. Reported yield 18 gpm. Texas Water Development Board observation well. 1/ 4/
*	504	Clyde Setzler	do.	1964	74	7	74	do.	--	--	--	Sub, E 3	Irr	Completed from 40 to 68 ft. Pump set at 65 ft. Reported yield 52 gpm. Gravel packed. Temp. 70°F. 1/
*	505	G. W. Carter	do.	1963	83	6	83	P	--	--	--	J, E 1/2	D	Perforated from 44 to 54 ft. Water tastes and smells like crude oil.
	506	George Guest	Alford James Price	1966	87	8	87	Ktp	--	--	--	Sub, E	Irr	Slotted. Reported yield 50 gpm. Gravel packed. 1/
	507	do.	do.	1966	65	8	65	do.	--	--	--	Sub, E 1-1/2	Irr	Gravel packed. 1/
	605	B. E. Hanson	J. T. Carson	1965	88	8	88	do.	1,282	57.57 37.63	July 16, 1965 Mar. 24, 1969	Sub, E 15	Irr	Pump set at 72 ft. Reported yield 300 gpm. Gravel packed. Texas Water Development Board Observation well. 1/ 4/
	606	do.	Lightfoot and McCrum	1965	104	10	104	do.	--	74.19	July 16, 1965	Sub, E 5	Irr	Gravel Packed. 1/
	607	do.	J. T. Carson	1965	95	8	95	do.	--	88.79	do.	Sub, E 5	Irr	Reported yield 100 gpm. Gravel packed. 1/
*	608	C. H. George	N. L. Box Drilling Contractor	1963	103	8	103	do.	--	37.45	Aug. 9, 1965	Sub, E 15	Irr	Pump set at 95 ft. Reported yield 248 gpm. Measured yield 137.1 gpm. Power and yield test at sprinkler on Aug. 5, 1966. Gravel packed. Temp. 68°F. 5/
	609	do.	Robert Lee-Bob-Barnhill	1961	131	8	112	do.	--	--	--	Sub, E 10	Irr	Pump set at 106 ft. Measured yield 43.6 gpm. Power and yield test at sprinkler on Aug. 8, 1966. Gravel packed. 1/ 5/
	610	B. E. Hanson	Lightfoot and McCrum	1965	104	8	104	do.	--	--	--	--	Irr	Slotted from 35 to 79 ft. Gravel packed. 1/
	611	L. V. Park	Ardean Klammell Irrigation Service	1967	77	8	77	do.	--	25 26.70	Jan. 27, 1967 Mar. 24, 1969	Sub, E 3	Irr	Slotted from 26 to 56 ft. Pumping level 75 ft at 66 gpm on Jan 27, 1967. Pump set at 75 ft. Power and yield test on Aug. 17, 1967. Gravel packed. Texas Water Development Board observation well. 1/ 4/ 5/
	612	do.	do.	1967	92	8	92	do.	--	17	Jan. 30, 1967	Sub, E 5	Irr	Slotted from 18 to 40 and 70 to 82 ft. Pumping level 83 ft at 80 gpm on Jan. 30, 1967. Pump set at 85 ft. Power and yield test on Aug. 17, 1967. Gravel packed. 1/ 5/
	613	do.	do.	1967	116	8	109	do.	--	30	Mar. 14, 1967	Sub, E 3	Irr	Slotted from 35 to 50 and 70 to 107 ft. Pumping level 102 ft at 85 gpm on Mar. 14, 1967. Pump set at 103 ft. Power and yield test on Aug. 17, 1967. Gravel packed. 1/ 5/
	701	R. Robinson	N. L. Box Drilling Contractor	--	67	7	67	do.	--	13	Jan. 13, 1960	J, E 1/4	D	Gravel packed. 1/
*	703	Larry Womack Nursery	do.	1963	90	5	90	do.	--	37.11 41.05	July 13, 1965 Mar. 13, 1969	Sub, E 1	Irr	Pump set at 85 ft. Measured yield 27 gpm. Power and yield test on June 28, 1966. Gravel packed. Temp. 69°F. 5/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-31-52-704	Claude Devoll	Lightfoot and McCrum	1963	80	7	80	Ktp	--	40 52.10 46.09	Apr. 15, 1965 July 29, 1965 June 21, 1966	Sub, E 5	Irr	Pump set at 70 ft. Power and yield test on Aug. Aug. 5, 1966, Gravel packed. 1/ 5/
705	do.	do.	1963	119	7	119	do.	--	40 60.5	Apr. 15, 1965 July 29, 1965	Sub, E 5	Irr	Power and Yield test on Aug. 5, 1966. Gravel Packed. 1/ 5/
706	do.	Roy Parker	1963	109	7	109	do.	--	27.82	July 29, 1965	Sub, E 5	Irr	Power and yield test on Aug. 5, 1966. Gravel packed. 5/
* 707	Dale George	Robert Lee-Bob-Barnhill	1964	82	7	82	do.	--	58.5 40.30	July 13, 1965 June 28, 1966	Sub, E 5	Irr	Completed from 20 to 74 ft. Pump set at 76 ft. Reported yield 80 gpm. Gravel packed. Temp. 67°F. 1/
708	do.	do.	1964	85	7	85	do.	--	31.68 42.86	July 13, 1965 June 28, 1966	Sub, E 5	Irr	Completed from 20 to 74 ft. Pump set at 77 ft. Reported yield 80 gpm. Gravel packed. 1/
709	do.	Lightfoot and McCrum	1965	110	5	110	do.	1,372	49.96 50.03	June 30, 1966 Mar. 24, 1969	Sub, E 2-1/2	Irr	Perforated from 63 to 90 ft. Reported yield 50 gpm. Gravel packed. Texas Water Development Board observation well. 1/ 2/ 4/
* 710	Larry Womack Nursery	Womack Drilling Co.	1967	100	8	100	do.	--	57.58	Mar. 13, 1969	Sub, E 5	Irr	Pump set at 90 ft. Temp. 68°F.
801	Cedric Bettis	N. L. Box Drilling Contractor	1958	107	8	107	do.	--	50.9	July 19, 1965	Sub, E 5	Irr	Perforated. Reported yield 104 gpm. Gravel packed. 1/
802	E. Joiner	do.	--	107	--	--	do.	--	--	--	J, E 1/4	D	1/
803	Cedric Bettis	A. L. Varner	1965	97	7	97	do.	--	--	--	Sub, E 7-1/2	Irr	Slotted. Gravel packed. 1/
804	John W. Boswell	Johnny Weir Drilling	1967	140	8	140	do.	1,367	80.65	Mar. 24, 1969	Sub, E 10	Irr	Slotted. Pump set at 135 ft. Power and yield test on Aug. 15, 1967. Texas Water Development Board observation well. 1/ 4/ 5/
805	do.	do.	1967	131	8	131	do.	--	--	--	Sub, E 15	Irr	Slotted from 71 to 131 ft. Pump set at 125 ft. Power and yield test on Aug. 15, 1967. 1/ 5/
806	do.	do.	1967	146	8	146	do.	--	--	--	Sub, E 10	Irr	Slotted from 86 to 146 ft. Pump set at 140 ft. Power and yield test on Aug. 15, 1967. 1/ 5/
901	R. L. George	N. L. Box Drilling Contractor	1964	102	7	102	do.	--	45.9	July 13, 1965	Sub, E 5	Irr	Completed from 18 to 34 and 47 to 97 ft. Pump set at 95 ft. Reported yield 63 gpm. Gravel packed. 1/
902	do.	do.	1965	104	8	104	do.	--	6	Feb. 11, 1965	Sub, E 7-1/2	Irr	Slotted from 15 to 19 and 22 to 100 ft. Pumping level 100 ft at 190 gpm on Feb. 11, 1965. Measured yield 102.3 gpm. Power and yield test at sprinkler on Aug. 8, 1968. Gravel packed. 5/
903	do.	do.	1964	101	8	100	do.	--	--	--	Sub, E 7-1/2	Irr	Completed from 46 to 96 ft. Pump set at 88 ft. Reported yield 155 gpm. Gravel packed. 1/
904	Feltz Terrill	Pate Water Well Service	1964	97	6	97	do.	1,294	14.95 33.60	July 15, 1965 Mar. 24, 1969	Sub, E 7-1/2	Irr	Completed from 15 to 97 ft. Pump set at 94 ft. Gravel packed. Texas Water Development Board observation well. 4/
905	do.	do.	1965	95	7	95	do.	--	13.0	July 15, 1965	Sub, E	Irr	Completed from 15 to 95 ft. Gravel packed.
906	Alvis Kimmell	Ardean Kimmell Irrigation Service	1965	114	8	113	do.	--	22	Nov. 10, 1965	Sub, E 7-1/2	Irr	Slotted. Pumping level 113 ft at 125 gpm on Apr. 13, 1966. Pump set at 106 ft. Reported Yield 115 gpm. Gravel packed. 1/

See footnotes at end of table.

COMANCHE COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* DY-31-52-907	Ray Joiner	Johnny Weir Drilling	1967	110	8	110	Klp.	--	37.77	Mar. 10, 1969	Sub, E	Irr	Slotted from 75 to 103 ft. Gravel packed. Temp. 65°F. 1/
* 908	do.	do.	1967	111	8	111	do.	--	--	--	Sub, E	Irr	Slotted from 85 to 100 ft. Gravel packed. 1/
909	do.	do.	1967	110	8	110	do.	--	--	--	Sub, E	Irr	Slotted. Gravel packed.
* 53-407	Ardean Kimmell	N. L. Box Drilling Contractor	1961	120	8	102	do.	1,290	95	July 16, 1965	Sub, E 10	Irr	Completed from 38 to 96 ft. Pump set at 95 ft. Estimated yield 120 gpm. Gravel packed. Temp. 70°F. 1/
408	do.	Ardean Kimmell Irrigation Service	1964	92	8	92	do.	1,290	20.79	do.	--	Irr	Completed from 28 to 92 ft. Reported yield 80 gpm. 1/
409	Alvis Kimmell	do.	1965	103	8	100	do.	1,290	25	Nov. 4, 1965	Sub, E 7-1/2	Irr	Pumping level 100 ft at 125 gpm on Apr. 13, 1966. Pump set at 95 ft. Reported yield 115 gpm. Gravel packed. 1/
410	Ardean Kimmell	do.	1965	99	--	--	do.	1,290	20	Nov. 20, 1965	--	Irr	Slotted. Pumping level 80 ft at 170 gpm on Mar. 4, 1966. Gravel packed. 1/
414	do.	do.	1968	115	8	115	Kho	1,303	40 55.26	Aug. 27, 1968 Mar. 27, 1969	N	N	Slotted from 55 to 105 ft. Pumping level 105 ft at 65 gpm on Aug. 27, 1968. Gravel packed. Owner uses as observation well. Texas Water Development Board Observation well. 1/ 4/
701	James D. Gardner	N. L. Box Drilling Contractor	1957	116	6	116	Ktp	1,275	67 67.65	Oct. 1, 1959 Mar. 26, 1969	Sub, E 1	Irr	Completed from 40 to 116 ft. Pump set at 100 ft. Reported yield 30 gpm. Gravel packed. Texas Water Development Board observation well. 1/ 4/
702	do.	do.	1955	120	6	120	do.	1,278	68	Oct. 1, 1959	T, E 3	Irr	Completed from 40 to 120 ft. Pump set at 105 ft. Reported yield 45 gpm. Measured yield 33.3 gpm. Power and yield test on July 29, 1966. 1/ 5/
* 703	do.	do.	1955	112	6	112	do.	1,278	70	do.	T, E 3	Irr	Completed from 40 to 112 ft. Reported yield 45 gpm. Measured yield 28.5 gpm. Power and yield test on July 29, 1966. Temp. 69°F. 5/
704	do.	do.	1955	130	6	130	do.	1,275	--	--	T, E 5	Irr	Completed from 40 to 120 ft. Pump set at 115 ft. Estimated yield 100 gpm. measured yield 72.7 gpm. Power and yield test on July 29, 1966. 1/ 5/
705	do.	do.	1955	126	6	126	do.	1,275	--	--	T, E 5	Irr	Do.
706	do.	Terry Drilling and Supply Co.	1952	128	5	128	do.	1,299	77 70 81.91	Oct. 1, 1959 Dec. 9, 1959 July 13, 1965	T, E 5	Irr	Completed from 40 to 128 ft. Pump set at 105 ft. Reported yield 75 gpm. Measured yield 30.4 gpm. Power and yield test at sprinkler on July 29, 1966. 5/
707	do	N. L. Box Drilling Contractor	1956	128	6	128	do.	1,289	--	--	T, E 5	Irr	Completed from 84 to 128 ft. Pump set at 125 ft. Reported yield 200 gpm.
708	do.	do.	1956	118	6	118	do.	1,289	--	--	T, E 5	Irr	Perforated from 22 to 25, 40 to 48, and 97 to 114 ft. Pump set at 115 ft. Reported yield 80 gpm.
709	R. D. Ross	Roy Parker	1956	100	10	100	do.	1,255	38	Oct. 22, 1959	T, E 25	Irr	Pump set at 95 ft. Estimated yield 140 gpm.
719	James D. Gardner	N. L. Box Drilling Contractor	1961	118	6	118	do.	1,289	--	--	T, E 5	Irr	Pump set at 110 ft. Gravel packed. 1/
720	Deryl Johnson	Lightfoot and McCrum	1965	116	7	116	do.	1,255	45	Mar. 8, 1965	Sub, E 7-1/2	Irr	Completed from 45 to 98 ft. Pump set at 100 ft. Gravel packed. 1/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-31-53-721	Dale Johnson	Lightfoot and McCrum	1965	105	7	105	Ktp	1,285	35 45.04	Mar. 2, 1965 Mar. 21, 1967	Sub, E 2	Irr	Completed from 25 to 40 and 60 to 97 ft. Pump set at 85 ft. Reported yield 50 gpm. Gravel packed. Texas Water Development Board observation well. 1/ 4/
722	do.	do.	1965	112	7	112	do.	1,285	54.30 50.05	Apr. 19, 1966 Mar. 26, 1969	Sub, E 5	Irr	Completed from 62 to 105 ft. Pump set at 105 ft. Reported yield 70 gpm. Gravel packed. Texas Water Development Board observation well. 1/ 4/
723	do.	Dale Johnson	1964	40	7	40	Khe	1,285	--	--	Sub, E 2	Irr	Completed from 35 to 40 ft. Pump set at 37 ft. Reported yield 100 gpm. Gravel packed.
724	Alvis Kimmell	Ardean Kimmell Irrigation Service	1966	96	8	96	Ktp	1,285	14 50.89	Mar. 4, 1966 July 11, 1968	Sub, E 1	Irr	Slotted from 25 to 96 ft. Pumping level 85 ft at 30 gpm on Mar. 4, 1966. Measured yield 10.9 gpm. Power and yield test on Aug. 5, 1966. Gravel packed. 1/ 5/
725	do.	do.	1966	80	5	80	do.	1,278	14	May 4, 1968	Sub, E 1	Irr	Perforated from 5 to 15, 32 to 40, and 56 to 74 ft. Pump set at 70 ft. Reported yield 30 gpm. Measured yield 8.3 gpm. Power and yield test on Aug. 5, 1966. Gravel packed. 1/ 5/
726	P. R. George	N. L. Box Drilling Contractor	1966	102	7	102	do.	1,255	--	--	Sub, E 3	Irr	Slotted from 45 to 95 ft. Reported yield 130 gpm. Gravel packed. 1/
727	do.	do.	1966	102	7	102	do.	1,255	--	--	--	Irr	Slotted from 45 to 95 ft. Reported yield 115 gpm. Gravel packed. 1/
728	William L. Owens	do.	1966	83	5	83	do.	1,240	31	Feb. 18, 1966	Sub, E 1	Irr	Slotted from 32 to 82 ft. Pump set at 78 ft. Reported yield 30 gpm. Gravel packed. 1/
729	do.	do.	1966	66	5	66	do.	1,235	26	Feb. 21, 1966	Sub, E 1-1/2	Irr	Slotted from 20 to 63 ft. Pump set at 58 ft. Reported yield 50 gpm. Gravel packed. 1/
730	Dale Johnson	Lightfoot and McCrum	1966	110	7	110	do.	1,285	30	Mar. 12, 1966	--	Irr	Slotted from 30 to 35 and 55 to 103 ft. Reported yield 60 gpm. Gravel packed. 1/
731	Deryl Johnson	do.	1966	102	7	102	do.	1,255	30	Mar. 18, 1966	--	Irr	Slotted from 40 to 96 ft. Reported yield 75 gpm. Gravel packed. 1/
* 57-604	Oscar White	Roy Michael	1955	100	10	100	Ka	--	55	Dec. 10, 1959	Sub, E 10	Irr	Completed from 60 to 100 ft. Reported yield 140 gpm. Measured yield 73.5 gpm. Power and yield test at sprinkler on Aug. 9, 1966. Temp. 70°F. 5/
605	do.	Windham and Michael	1964	105	10	105	do.	--	56.12	July 5, 1965	Sub, E 10	Irr	Perforated. Pumps oil some times and water smells like gas. 1/
* 606	do.	J. R. Marr	--	100	10	100	do.	1,617	40.53 41.55	July 5, 1965 Mar. 15, 1967	Sub, E 10	Irr	Texas Water Development Board observation well. 4/
* 58-702	Harold Pierson	Akin and Tower	1938	56	22 18 15	36 46 56	Ktp	--	22.0	July 9, 1965	Sub, E 3	Irr	Completed from 30 to 50 ft. Pump set at 46 ft. Reported yield 50 gpm. Gravel packed. Temp. 66°F.
703	T. E. Simonton	T. E. Simonton	1963	68	7	68	do.	1,606	38 33.57	July 9, 1965 Mar. 26, 1969	Sub, E 3	Irr	Completed from 28 to 40 and 50 to 68 ft. Pump set at 65 ft. Reported yield 60 gpm. Measured yield 43.4 gpm. Power and yield test on Aug. 9, 1966. Gravel packed. Texas Water Development Board observation well. 1/ 4/ 5/
* 59-201	Webb Heathington	-- Bradley	1940	160	6	--	Ktp, P	--	--	--	C, E 1/2	D	--
202	Dean Pounds	J. R. Quarles	1965	85	8	85	Ktp	--	18	July 20, 1965	T, G	Irr	Completed from 26 to 85 ft. Pump set at 70 ft. Estimated yield 150 gpm. Gravel packed.

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	DY-31-59-203	Dean Founds	Carl A. Taylor	1966	75	8	52	Ktp	--	17	Jan. 15, 1966	Sub, E 1.5	Irr	Slotted from 15 to 52 ft and open hole from 52 to 75 ft. Pump set at 50 ft. Reported yield 250 gpm. Gravel packed. 1/
	204	do.	do.	1966	75	8	52	do.	--	20	Feb. 18, 1966	Sub, E 3	Irr	Slotted from 17 to 52 ft and open hole from 52 to 75 ft. Reported yield 30 gpm. Gravel packed. 1/
*	205	Toye Keith	--	--	106	5	106	do.	--	--	--	J, E 3/4	S	Pump set at 75 ft. Reported yield 10 gpm. Temp. 60°F.
*	301	Tom Johnson	N. L. Box Drilling Contractor	1964	219	7	218	P	1,334	57.96	July 19, 1965	Sub, E 15	Irr	Completed from 167 to 213 ft. Pump set at 213 ft. Reported yield 120 gpm. Power and yield test on Aug. 11, 1966. Gravel packed. Temp. 70°F. 1/ 5/
*	302	E. L. White	Timmie Johnson	1964	262	7	262	Ktp, P	1,340	46.16 20.82	Mar. 23, 1966 Mar. 26, 1969	Sub, E 15	Irr	Completed from 20 to 40 and 222 to 262 ft. Pump set at 257 ft. Reported yield 85 gpm. Temp. 74°F. Texas Water Development Board observation well. 4/
	303	L. E. Farley	Lightfoot and McCrum	1965	190	--	--	do.	--	--	--	N	N	Well was plugged and abandoned. 1/
*	304	Charlie Counts	Timmie Johnson	1964	145	8 7	22 145	Ktp	--	--	--	T, G 20	Irr	Completed from 18 to 22 ft, open hole from 22 to 62 ft, and completed from 62 to 72 ft. Pump set at 92 ft. Reported yield 220 gpm. Temp. 68°F.
	305	Wendell Founds	Carl A. Taylor	1965	100	8	100	do.	--	17	Dec. 30, 1965	Sub, E 2	Irr	Slotted from 25 to 95 ft. Measured yield 23.1 gpm. Power and yield test on July 28, 1966. Gravel packed. 1/ 5/
	306	do.	do.	1966	100	8	64	do.	--	15	Jan. 19, 1966	Sub, E 1-1/2	Irr	Slotted from 20 to 64 ft and open hole from 64 to 100 ft. Reported yield 30 gpm. Measured yield 18.1 gpm. Power and yield test on July 28, 1966. Gravel packed. 1/ 5/
	307	Tom Johnson	Lightfoot and McCrum	1966	205	8	205	Ktp, P	--	20	Jan. 11, 1966	Sub, E 10	Irr	Slotted from 20 to 32 and 169 to 197 ft. Reported yield 70 gpm. Power and yield test on Aug. 11, 1966. Gravel packed. 1/ 5/
	601	Herbert W. Buchanan	N. L. Box Drilling Contractor	1964	95	7	94	P	1,295	12.79 12.76 15.84 20.55	July 20, 1965 Mar. 23, 1966 Mar. 21, 1967 Mar. 22, 1968	Sub, E	Irr	Completed from 66 to 90 ft. Reported yield 60 gpm. Gravel packed. 1/
	703	Charles Carter	Mac Bradford	1959	100	14 7	58 100	Ktp	1,467	23.62 23.89	June 29, 1966 Mar. 26, 1969	N	N	Perforated. Gravel packed. Texas Water Development Board observation well. 2/ 4/
	901	Jack Martin	-- Taylor	1870	42	48	--	do.	1,345	27 25.03	Oct. 28, 1959 Mar. 26, 1969	J, E 1/2	D, S	Dug well with brick wall. Texas Water Development Board observation well. 4/
	60-101	Elvin Walker	Pate Water Well Service	1964	35	7	35	do.	1,268	10.03 11.46	Aug. 13, 1965 Mar. 26, 1969	R, E 1	Irr	Completed from 6 to 35 ft. Pump set at 30 ft. Reported yield 60 gpm. Gravel packed. Texas Water Development Board observation well. 4/
	102	do.	do.	1965	35	5	35	do.	--	9.7	Aug. 11, 1965	R, E	Irr	Completed from 6 to 35 ft. Pump set at 30 ft. Reported yield 20 gpm. Gravel packed.
	103	do.	do.	--	35	7	35	do.	--	7.62	do.	--	Irr	Completed from 6 to 35 ft. Reported yield 30 gpm. Gravel packed.
	201	C. W. Crawford	N. L. Box Drilling Contractor	1954	74	8	74	do.	--	50	Oct. 21, 1959	C, E 1	Irr	Completed from 50 to 74 ft. Gravel packed.
*	202	do.	do.	1958	74	8	74	do.	--	47 44.85	Oct. 21, 1959 July 12, 1965	Sub, E 1	D	Completed from 50 to 70 ft. Pumping level 55 ft at 35 gpm. Reported yield 40 gpm. Gravel Packed. 1/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	DY-31-60-203	L. M. Richmon	L. M. Richmon	1956	85	7	85	Ktp	--	57	Oct. 22, 1959	T, E 3	Irr	Completed from 60 to 85 ft. Pump set at 84 ft. Reported yield 80 gpm. Well was drilled to 115 ft and plugged back to 85 ft. 1/
	204	do.	do.	1956	85	5	85	do.	--	52	do.	T, E 3	Irr	Perforated from 48 to 55, 59 to 78, and 79 to 81 ft. Reported yield 80 gpm. 1/
	205	do.	--	1955	85	7	85	do.	1,301	61	do.	T, E 3	Irr	Perforated. Pump set at 85 ft. Reported yield 70 gpm.
	206	Bill Dendy	N. L. Box Drilling Contractor	1956	71	6	--	do.	1,337	45 42.08	Dec. 9, 1959 Mar. 24, 1969	C, E	Irr	Completed from 43 to 63 ft. Reported yield 75 gpm. Texas Water Development Board observation well. 1/ 4/
*	209	L. M. Richmon	M and L Drilling Co.	1964	103	6	103	do.	1,319	57 67.13 66.90	July 13, 1965 Mar. 24, 1966 Mar. 7, 1967	Sub, E 3	Irr	Reported yield 80 gpm. Measured yield 72.7 gpm. Power and yield test on Aug. 16, 1966. Gravel packed. Temp. 70°F. 5/
	210	do.	do.	1964	103	6	103	do.	1,318	66.32 67.03	Mar. 24, 1966 Mar. 7, 1967	Sub, E 2	Irr	Measured yield 64.8 gpm. Power and yield test on Aug. 16, 1966. Gravel packed. 5/
	211	do.	do.	1964	103	6	103	do.	1,311	59.22 58.82	Sept. 1, 1966 Mar. 26, 1969	N	N	Pumping level 84 ft at 140 gpm in 1964. Texas Water Development Board observation well. 4/
	212	C. A. Short	Holdridge Drilling Co.	1966	106	7	102	do.	--	--	--	Sub, E 3	Irr	Slotted from 52 to 58 and 80 to 102 ft. Pump set at 91 ft. Measured yield 35.8 gpm. Power and yield test at sprinkler on Aug. 15, 1966. Gravel packed. 5/
*	213	Bill Wilkerson	N. L. Box Drilling Contractor	1964	98	5	98	Kho	1,308	60 52.96	Oct. 9, 1964 Mar. 26, 1969	Sub, E 2	Ind	Completed from 72 to 93 ft. Gravel packed. Temp. 70°F. Texas Water Development Board observation well. 1/ 4/
	214	N. L. Box	do.	1966	100	8	100	do.	1,321	40 38.92	Dec. 5, 1966 Jan. 23, 1969	Sub, E	Irr	Slotted from 42 to 95 ft. Pumping level 90 ft at 100 gpm on Dec. 5, 1966. Gravel packed. 1/
*	215	do.	do.	1967	100	8	100	do.	1,323	44 41.87 41.59	Aug. 2, 1967 Jan. 23, 1969 Mar. 25, 1969	Sub, E 7-1/2	Irr	Slotted from 46 to 96 ft. Pumping level 84 ft at 125 gpm on Aug. 2, 1967. Pumping level 78 ft at 80 gpm on Mar. 27, 1969. Pump set at 95 ft. Reported yield 100 gpm. Gravel packed. 1/ 3/
	216	do.	Texas Water Development board	1969	101	7 2	45.5 101	Kho	1,323	40.49 40.18 39.50	Mar. 21, 1969 Mar. 22, 1969 Mar. 23, 1969	N	N	Slotted from 38 to 101 ft. Well drilled as observation well for pumping test on well DY-31-60-215. Casing pulled and well plugged and abandoned. 2/ 3/
*	217	do.	do.	1969	103	7 2	45.5 103	do.	1,324	41.37 41.19 40.36 41.16 41.27	Mar. 21, 1969 Mar. 22, 1969 Mar. 23, 1969 Mar. 24, 1969 Mar. 25, 1969	N	N	Slotted from 40 to 103 ft. Well drilled as observation well for pumping test on well DY-31-60-215. Casing pulled and well plugged and abandoned. 2/ 3/
*	218	do.	do.	1969	101	7 2	42 85	do.	1,326	41.89 42.17 42.09 41.64	Mar. 19, 1969 Mar. 21, 1969 Mar. 22, 1969 Mar. 24, 1969	N	N	Slotted from 43 to 84 ft. Well drilled as observation well for pumping test on well DY-31-60-215. Casing pulled and well plugged and abandoned. 1/ 2/ 3/
	219	do.	do.	1969	105	5 2	44 105	do.	1,322	40.01 39.60 39.89 39.75 39.95	Mar. 21, 1969 Mar. 22, 1969 Mar. 23, 1969 Mar. 24, 1969 Mar. 25, 1969	N	N	Slotted from 40 to 105 ft. Well drilled as observation well for pumping test on well DY-31-60-215. Casing pulled and well plugged and abandoned. 2/ 3/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-31-60-220	N. L. Box	Texas Water Development Board	1969	105	7 2	39 105	Kho	1,321	39.48 39.04 38.37 39.09 39.23	Mar. 21, 1969 Mar. 22, 1969 Mar. 23, 1969 Mar. 24, 1969 Mar. 25, 1969	N	N	Slotted from 42 to 105 ft. Well drilled as observation well for pumping test on well DY-31-60-215. Temp. 67°F. Casing pulled and well plugged and abandoned. 2/ 3/
* 221	do.	do.	1969	32	2	31.5	Khe	1,322	14.18 14.34 13.85 13.02 13.70 13.73	Mar. 19, 1969 Mar. 21, 1969 Mar. 22, 1969 Mar. 23, 1969 Mar. 24, 1969 Mar. 25, 1969	N	N	Slotted from 20.6 to 31 ft. Well drilled as observation well for pumping test on well DY-31-60-215. Temp. 67°F. Casing pulled and well plugged and abandoned. 3/
301	M.K.&T. Railroad Co.	--	--	150	8	150	Ktp, P	--	34	Oct. 15, 1959	T, E 5	P	Pump set at 140 ft.
303	Fred Cuze	N. L. Box Drilling Contractor	--	70	8	30	Ktp	1,286	26.20 27.40	Apr. 1, 1966 Mar. 7, 1967	--	D	Well drilled to 110 ft and plugged back to 70 ft. 1/
305	City of DeLeon	--	--	178	4	--	Ktp, P	1,268	45	Mar. 20, 1946	N	N	Well plugged and abandoned. 1/
306	do.	--	--	150	6	--	do.	--	100	do.	Sub, E 3	P	Well drilled to 210 ft and plugged back to 150 ft.
307	do.	--	--	210	6	--	do.	--	100	do.	N	N	Well plugged and abandoned.
308	do.	--	--	200	6	--	do.	--	100	do.	N	N	Abandoned.
309	do.	--	--	200	6	--	do.	--	100	do.	T, E 3	P	Pump set at 165 ft. Reported yield 25 gpm.
310	do.	J. B. Tatum	--	150	6	--	do.	--	100	Oct. 21, 1960	N	N	Abandoned.
311	do.	--	--	150	6	--	do.	--	100	Mar. 20, 1946	T, E 3	P	Pump set at 145 ft. Reported yield 25 gpm.
* 312	do.	--	--	200	6	--	do.	--	--	--	N	N	Abandoned.
313	do.	J. B. Tatum	--	150	8	--	do.	--	--	--	N	N	Do.
314	do.	do.	--	200	6	--	do.	--	--	--	T, E 3	P	Pump set at 165 ft. Reported yield 25 gpm.
* 315	do.	do.	--	200	6	--	do.	--	--	--	T, E 3	P	Pump set at 165 ft. Reported yield 25 gpm. Temp. 68.5°F.
317	M.K.&T. Railroad Co.	--	--	195	8	--	do.	--	--	--	T, E 7-1/2	P	Pump set at 145 ft. Reported yield 96 gpm.
318	do.	--	--	155	8	--	do.	--	--	--	T, E 7-1/2	P	Pump set at 140 ft. Reported yield 93 gpm.
319	do.	--	--	125	8	--	do.	--	--	--	T, E 5	P	Pump set at 110 ft.
320	do.	--	--	150	6	--	do.	--	--	--	Sub, E 3	P	Do.
321	City of DeLeon	--	--	150	8	--	do.	--	--	--	T, E 3	P	Pump set at 140 ft.
322	do.	--	--	150	8	--	do.	--	--	--	T, E 3	P	Pump set at 145 ft.
323	do.	--	--	150	8	--	do.	--	--	--	T, E 3	P	Do.

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-31-60-324	City of DeLeon	--	--	150	8	--	Ktp, P	--	--	--	T, E 3	P	Pump set at 145 ft.
325	J. J. Mathis	Ardean Kimmell Irrigation Service	1966	94	8	94	Ktp	1,280	50	Apr. 5, 1966	Sub, E 3	Irr	Slotted from 58 to 94 ft. Pumping level 80 ft at 90 gpm on Apr. 5, 1966. Gravel packed. 1/
326	do.	do.	1966	87	8	87	do.	--	54	Apr. 13, 1966	Sub, E 3	Irr	Slotted from 50 to 82 ft. Pumping level 80 ft at 140 gpm on Apr. 13, 1966. Gravel packed. 1/
327	do.	do.	1966	86	8	86	do.	--	50	Apr. 18, 1966	Sub, E 3	Irr	Slotted from 55 to 84 ft. Pumping level 80 ft at 90 gpm on Apr. 18, 1966. Gravel packed. 1/
328	do.	do.	1966	80	8	80	do.	--	40	Apr. 20, 1966	Sub, E 3	Irr	Slotted from 45 to 80 ft. Pumping level 70 ft at 150 gpm on Apr. 20, 1966. Gravel packed. 1/
401	O. G. Gilchrist	N. L. Box Drilling Contractor	--	55	5	55	do.	1,294	13.24 12.83	Mar. 24, 1966 Mar. 26, 1969	--	D	Reported yield 2.5 gpm. Texas Water Development Board observation well. 1/ 4/
501	Billy Gray	do.	1964	85	7	85	do.	--	18 39.85	June 8, 1964 Sept. 28, 1965	Sub, E 3	Irr	Completed from 25 to 80 ft. Pump set at 80 ft. Reported yield 42 gpm. Gravel packed. 1/
502	Tommie Lawless	do.	--	95	5	95	do.	--	41.31	Mar. 7, 1967	Sub, E 3/4	Irr	Reported yield 29 gpm. Measured yield 26.3 gpm. Power and yield test on July 28, 1966. 5/
503	do.	do.	--	55	5	55	do.	1,253	16.00 17.42	Mar. 24, 1966 Mar. 26, 1969	J, E 1/2	D	Gravel packed. Texas Water Development Board observation well. 4/
601	Elmon Kerby	Ardean Kimmell Irrigation Service	1966	124	8	83	do.	--	40	Feb. 18, 1966	Sub, E 1-1/2	Irr	Perforated from 0 to 74 ft. Pumping level 70 ft at 70 gpm on Feb. 18, 1966. Gravel packed. 1/
602	do.	do.	1966	75	8	75	do.	--	40	Feb. 21, 1966	Sub, E 3	Irr	Slotted. Pumping level 70 ft at 90 gpm on Feb. 21, 1966. Gravel packed. 1/
603	do.	do.	1966	78	8	78	do.	--	37	Apr. 8, 1966	Sub, E 2	Irr	Slotted. Pumping level 70 ft at 80 gpm on Apr. 8, 1966. Gravel packed. 1/
604	Fred Williams	Edwin Davis and Iredell Drilling	1967	120	--	--	do.	1,280	--	--	N	N	Drilled as test hole. 1/
605	Tommie Taylor	Smith and Wolf Drilling Co.	1967	80	8	80	do.	--	61.6	Aug. 15, 1967	Sub, E 3	Irr	Perforated. Reported yield 36.6 gpm. Measured yield 36.1 gpm. Power and yield test on Aug. 15, 1967. Gravel packed. 1/ 5/
606	do.	do.	1967	90	8	90	do.	--	--	--	Sub, E 3	N	Perforated. Gravel packed. 1/
607	do.	do.	1967	98	8	98	do.	--	84.5	Aug. 15, 1967	Sub, E 3	Irr	Perforated. Reported yield 49.2 gpm. Measured yield 48.7 gpm. Power and yield test on Aug. 15, 1967. Gravel packed. 1/ 5/
608	do.	do.	1967	85	8	85	do.	--	68	do.	Sub, E 3	Irr	Perforated. Reported yield 68.2 gpm. Measured yield 66.5 gpm. Power and yield test on Aug. 15, 1967. Gravel packed. 1/ 5/
701	Ray McGinnis	do.	1966	78	7	78	do.	--	--	--	Sub, E 1-1/2	Irr	Completed from 50 to 78 ft. Reported yield 35 gpm. Measured yield 34.7 gpm. Power and yield test on July 25, 1967. Gravel packed. 5/
801	Gayle McGinnis	N. L. Box Drilling Contractor	1953	38	10	38	do.	--	13	Oct. 22, 1959	N	N	Reported yield 90 gpm. 1/
* 802	do.	do.	1953	25	6	25	do.	1,239	10.11 12.79	July 12, 1965 Mar. 24, 1966	R, E 1/2	D, Irr	Perforated from 8 to 25 ft. Reported yield 50 gpm. Temp. 66°F.

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-31-60-803	Gayle McGinnis	Mac Bradford	1953	40	6	--	Ktp	--	13	Oct. 22, 1959	N	N	Perforated from 8 to 25 ft. Well plugged and abandoned.
804	do.	--	--	35	8	35	do.	--	11	do.	T, E	Irr	Perforated from 13 to 35 ft. Dug well with brick wall, with 8 in. casing set. Gravel packed.
805	do.	N. L. Box Drilling Contractor	1953	39	8	38	do.	--	9.08	July 12, 1965	T, E 1	Irr	Perforated from 13 to 38 ft. 1/
806	Rex McGinnis	--	1955	65	6	65	do.	--	--	--	N	N	Perforated from 43 to 65 ft. Reported yield 60 gpm. Well plugged and abandoned.
807	Gayle McGinnis	L. L. Spears Water Well Drilling	1966	58	8	58	do.	1,251	20.62	June 30, 1966	Sub, E 5	Irr	Perforated from 33 to 58 ft. Gravel packed. 2/
* 808	do.	H and H Drilling Co.	1964	110	12	110	do.	--	11.26	July 12, 1965	N, E	Irr	Gravel packed. Temp. 68°F.
809	Rex McGinnis	Holdridge Drilling Co.	1967	80	8	80	do.	--	--	--	Sub, E 3	Irr	Slotted from 50 to 80 ft. Measured yield 64.7 gpm. Power and yield test on July 25, 1967. Gravel packed. 3/
810	do.	Acdean Kimmell Irrigation Service	1966	48	8	48	do.	--	--	--	Sub, E 1-1/2	Irr	Slotted. Reported yield 36 gpm. Measured yield 35.9 gpm. Power and yield test on July 25, 1967. Gravel packed. 3/
811	do.	do.	1966	60	8	60	do.	--	--	--	Sub, E 10	Irr	Slotted. Power and yield test on July 25, 1967. Gravel packed. 3/
812	do.	Holdridge Drilling Co.	1967	60	8	60	do.	--	--	--	Sub, E 5	Irr	Do.
901	L. N. Grissom	-- Scott	--	76	4	--	do.	1,213	33 29.12	Jan. 20, 1960 Mar. 27, 1969	T, E	D, S	Texas Water Development Board observation well. 4/
61-103	Robert Hodges	N. L. Box Drilling Contractor	1965	116	--	--	do.	1,250	45	Jan. 21, 1965	N	N	Reported yield 35 gpm. Well plugged and abandoned. 1/
104	do.	do.	1965	86	5	86	Kho	1,252	66.1	July 19, 1965	Sub, E 3	Irr	Completed from 58 to 80 ft. Gravel packed. 1/
105	do.	do.	1965	187	7	83	Ktp	1,259	69.93	do.	Sub, E 3	Irr	Completed from 28 to 80 ft. Reported yield 60 gpm. Gravel packed. 1/
106	do.	do.	1965	92	5	91	Kho	1,257	72.71	do.	Sub, E 3	Irr	Completed from 48 to 88 ft. Reported yield 50 gpm. Gravel packed. 1/
* 107	do.	do.	--	95	7	95	do.	1,258	69.31	do.	Sub, E 3	Irr	Completed from 45 to 90 ft. Reported yield 52 gpm. Gravel packed. Temp. 70°F. 1/
108	do.	do.	1966	83	5	83	Ktp	1,247	--	--	Sub, E 3	Irr	Slotted from 40 to 78 ft. Pump set at 70 ft. Reported yield 50 gpm. Gravel packed. 1/
109	do.	do.	1966	97	7	97	Kho	1,250	--	--	Sub, E 3	Irr	Slotted from 48 to 89 ft. Pump set at 85 ft. Reported yield 60 gpm. Power and yield test on Aug. 10, 1966. Gravel packed. Temp. 66°F. 1/ 3/
110	do.	do.	1966	100	7	100	Ktp	1,255	--	--	Sub, E 3	Irr	Slotted from 45 to 95 ft. Pump set at 85 ft. Reported yield 100 gpm. Power and yield test on Aug. 10, 1966. Gravel packed. 1/ 3/
111	do.	do.	1966	105	7	105	do.	1,248	--	--	Sub, E 3	Irr	Slotted from 66 to 100 ft. Pump set at 90 ft. Reported yield 60 gpm. Power and yield test on Aug. 10, 1966. Gravel packed. 1/ 3/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-31-61-112	Bill Wood	Lightfoot and McCrum	1966	65	7	65	Kho	1,240	35	June 28, 1966	Sub, E 1	Irr	Slotted from 40 to 57 ft. Pumping level 45 ft at 80 gpm on June 29, 1966. Pump set at 60 ft. Reported yield 21 gpm. Measured yield 21.2 gpm. Power and yield test on Aug. 16, 1967. Gravel packed. 1/ 5/
113	do.	do.	1966	66	7	66	do.	1,235	35	June 30, 1966	Sub, E 2	Irr	Slotted from 40 to 57 ft. Pumping level 40 ft at 75 gpm on July 1, 1966. Pump set at 60 ft. Reported yield 41 gpm. Measured yield 41.1 gpm. Power and yield test on Aug. 16, 1967. Gravel packed. 1/ 5/
114	do.	do.	1966	63	7	63	do.	1,230	35	July 2, 1966	Sub, E 2	Irr	Completed from 38 to 54 ft. Pumping level 40 ft at 75 gpm on July 2, 1966. Pump set at 60 ft. Reported yield 33 gpm. Measured yield 33.4 gpm. Power and yield test on Aug. 16, 1966. Gravel packed. 1/ 5/
115	do.	do.	1967	67	5	67	do.	1,230	40	Mar. 15, 1967	Sub, E 1	Irr	Perforated from 45 to 55 ft. Pumping level 60 ft at 30 gpm on Mar. 15, 1967. Pump set at 62 ft. Reported yield 17 gpm. Measured yield 17.2 gpm. Power and yield test on Aug. 16, 1967. Gravel packed. 1/ 5/
116	do.	do.	1967	69	7	69	do.	1,230	30	Mar. 17, 1967	Sub, E 2	Irr	Slotted from 43 to 55 ft. Pump set at 64 ft. Reported yield 43 gpm. Measured yield 42.9 gpm. Power and yield test on Aug. 16, 1967. Gravel packed. 1/ 5/
117	do.	do.	1967	61	7	61	do.	1,220	20	June 6, 1967	Sub, E 7-1/2	Irr	Slotted from 31 to 50 ft. Pumping level 50 ft at 134 gpm on June 7, 1967. Pump set at 55 ft. Reported yield 69 gpm. Measured yield 68.6 gpm. Power and yield test on Aug. 16, 1967. Gravel packed. 1/ 5/
118	do.	N. L. Box Drilling Contractor	--	57	5	57	do.	1,230	--	--	J, E 1/2	D	Reported yield 5 gpm.
119	do.	Comco Drilling Co.	1967	60	4	60	Ktp	1,235	--	--	J, E 1/2	D, S	Reported yield 20 gpm. 1/
120	P. R. George	N. L. Box Drilling Contractor	1966	100	10 7	55 100	do.	1,252	--	--	T, E 1	Irr	Slotted from 57 to 95 ft. Reported yield 38 gpm. Gravel packed. 1/
121	Herman S. Baker	--	--	77	3	77	do.	1,243	45.28	July 22, 1968	J, E 3/4	D	Slotted from 50 to 56 ft.
122	-- Dicky	--	1959	98	6	98	Kho	1,275	53.03	do.	T, E	D, S	Slotted from 88 to 98 ft. Pump set at 92 ft.
123	Howard Boswell	N. L. Box Drilling Contractor	1953	40	5	40	do.	1,215	14.65	do.	C, W	S	Perforated from 23 to 36 ft. Reported yield 27 gpm.
* 201	George Caraway	do.	1956	61	5	61	Khe	1,265	37 37.23	Jan. 20, 1960 Mar. 27, 1969	J, E	D--	Perforated from 43 to 57 ft. Texas Water Development Board observation well. 1/ 4/
* 401	C. A. Tucker	--	--	89	36	--	do.	1,330	85	Jan. 21, 1960	C, W	S	Dug well with brick wall.
402	J. C. Barnes	Steward Drilling Co.	1964	117	7	117	do.	1,258	--	--	Sub, E 3	Irr	Pump set at 105 ft. Reported yield 90 gpm. Measured yield 57 gpm. Power and yield test on June 29, 1966. Gravel packed. 5/
403	do.	J. A. Lyons	1958	103	6	103	do.	1,258	40	July 20, 1965	Sub, E 1-1/2	Irr	Reported yield 48 gpm. Measured yield 29 gpm. Power and yield test on June 29, 1966. Gravel packed. 5/
404	do.	-- Smith	1966	135	6	135	Ktp	1,255	58.29 56.81	Apr. 15, 1966 Mar. 27, 1969	Sub, E	D	Texas Water Development Board observation well. 4/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	DY-31-61-405	Humble Pipeline Co.	N. L. Box Drilling Contractor	1963	109	5	109	Kho	1,252	50	Feb. 19, 1963	Sub, E 3/4	Ind	Slotted from 80 to 102 ft. Pump set at 101 ft. Reported yield 60 gpm. Gravel packed. 1/
*	701	E. G. McKinnon	Steward Drilling Co.	1959	135	8	135	Ktp	1,260	58 57.39	Oct. 28, 1959 Apr. 15, 1966	T, E 10	Irr	Pump set at 134 ft. Reported yield 160 gpm. Measured yield 90 gpm. Power and yield test at sprinkler on Aug. 3, 1966. Temp. 70°F. 5/
	702	C. R. Butler	O. C. Johnson	--	57	3	--	do.	1,215	43	Jan. 21, 1960	--	D, S	--
	703	E. G. McKinnon	Steward Drilling Co.	1964	130	7	130	do.	1,255	60.1 56.97	July 20, 1965 Mar. 22, 1968	Sub, E 5	Irr	Completed from 40 to 60 and 90 to 130 ft. Measured yield 80 gpm. Power and yield test on Aug. 3, 1966. Gravel packed. Texas Water Development Board observation well. 4/ 5/
	704	C. B. Garner	do.	1963	130	7	130	do.	1,255	69.6	July 30, 1965	Sub, E 5	Irr	Completed from 60 to 130 ft. Pump set at 123 ft. Reported yield 150 gpm. Gravel packed.
	705	Henry Van Terrell	Lightfoot and McCrum	1966	110	8	110	Kho	1,250	65	Feb. 25, 1966	Sub, E 10	Irr	Slotted from 68 to 100 ft. Pumping level 100 ft at 120 gpm on Feb. 25, 1966. Pump set at 100 ft. Gravel packed. 1/
	706	John H. Foley	Petit and Kight Drilling Co.	1966	140	--	140	do.	1,265	66	Apr. 8, 1966	--	N	Slotted from 118 to 137 ft. Pumping level 137 ft at 90 gpm on Apr. 8, 1966. Gravel packed. 1/
	801	E. G. McKinnon	N. L. Box Drilling Contractor	1955	127	8	127	Ktp	1,245	48 47	Oct. 28, 1959 Jan. 21, 1960	T, E 7-1/2	Irr	Completed from 47 to 83 ft. Pump set at 125 ft. Reported yield 100 gpm. 1/
*	802	Dave C. Sears	Steward Drilling Co.	1961	160	8	160	do.	1,258	--	--	Sub, E 7-1/2	Irr	Pump set at 150 ft. Reported yield 150 gpm. Measured yield 114.3 gpm. Power and yield test on Aug. 3, 1966. Gravel packed. Temp. 70°F. 5/
	803	do.	--	1963	130	8	130	do.	1,258	52.21	July 29, 1965	Sub, E 5	Irr	Completed from 70 to 130 ft. Pump set at 130 ft. Reported yield 100 gpm. Gravel packed.
	804	do.	--	1963	130	7	130	do.	1,251	71.44	do.	Sub, E 5	Irr	Completed from 70 to 130 ft. Pump set at 120 ft. Reported yield 150 gpm. Gravel packed.
	805	do.	Jones Drilling Co.	1964	130	8	130	do.	1,251	127.0	do.	Sub, E 5	Irr	Completed from 70 to 130 ft. Pump set at 130 ft. Reported yield 100 gpm. Gravel packed.
	806	do.	-- Ray	1966	205	10	--	do.	1,255	46.52	July 5, 1965	--	Irr	Gravel packed. 2/
	901	Joe Howell	George Bolton	1963	180	7	180	do.	1,260	50	July 29, 1965	Sub, E 3	Irr	Completed from 130 to 180 ft. Pump set at 110 ft. Reported yield 120 gpm. Measured yield 58.5 gpm. Power and yield test on July 27, 1966. Gravel packed. 5/
	902	Lee Campbell	J. T. Brown Water Well Driller	1965	180	7	180	do.	1,318	--	--	Sub, E 3	D, S	Slotted. Pump set at 168 ft. Reported yield 12 gpm. Gravel packed. Cemented 28 to 40 ft. 1/
*	41-02-110	O. C. Allen	A. Turpin	1927	106	6	106	Khe	1,622	--	--	C, W	D, S	--
	603	Mrs. H. T. Redwine	-- Coffee	1906	90	--	--	do.	1,570	78.44 78.45	Mar. 24, 1966 Mar. 26, 1969	C, W	D, S	Texas Water Development Board observation well. 4/
*	901	D. C. Fry	Harris Drilling Co.	1969	111	5	111	do.	1,565	71.45	Mar. 6, 1969	--	D	Perforated from 80 to 111 ft. Gravel packed. Temp. 68°F. 1/
*	03-101	Roland Collins	Steward Drilling Co.	1957	80	8	80	Ktp	1,466	30 28.03	Oct. 28, 1959 Mar. 6, 1967	T, E 5	Irr	Measured yield 41.1 gpm. Power and yield test on Aug. 7, 1967. Temp. 69°F. Texas Water Development Board observation well. 4/ 5/
	201	B. E. Hanson	Comco Drilling Co.	1967	101	6	101	do.	--	--	--	Sub, E	Irr	Perforated from 35 to 50 and 70 to 90 ft. Pump set at 90 ft. Reported yield 65 gpm. Gravel packed. 3/
	202	do.	do.	1967	121	6	121	do.	--	--	--	Sub, E	Irr	Perforated from 40 to 50 and 90 to 110 ft. Pump set at 110 ft. Gravel packed.

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-41-03-203	B. E. Hanson	L. L. Spears Water Well Drilling	1966	40	7	40	Ktp	--	--	--	Sub, E 1-1/2	Irr	Slotted. Reported yield 30 gpm. Measured yield 29.7 gpm. Power and yield test on July 26, 1967. Gravel packed. 5/
401	P. D. Hall	--	1915	110	8	110	do.	--	--	--	J, E 1	P	--
601	L. L. Hart	Watt Foster	1959	150	7	114	Kho	1,390	50.03	June 23, 1966	C, W	D, S	Well drilled as oil test to 464 ft and plugged back to 150 ft. 1/
903	W. C. Chilton	Hoff Irrigation Co.	1952	113	5	--	Khe	1,425	50.50 50.85	Oct. 8, 1965 Mar. 26, 1969	N	N	Completed from 45 to 93 ft. Gravel packed. Texas Water Development Board observation well. 1/ 4/
04-201	A. L. Hendrix	J. W. Reeves	1967	40	7	17.5	Ktp	--	--	--	Sub, E 1-1/2	Irr	Open hole completion from 17.5 to 40 ft. Measured yield 51.6 gpm. Power and yield test on Aug. 7, 1967. 5/
202	do.	do.	1967	40	7	40	do.	--	--	--	Sub, E 1	Irr	Slotted from 20 to 40 ft. Measured yield 12.2 gpm. Power and yield test on Aug. 7, 1967. Gravel packed. 5/
203	do.	do.	1967	40	6	40	do.	--	--	--	Sub, E 1	Irr	Slotted from 20 to 40 ft. Pump set at 40 ft. Measured yield 30 gpm. Power and yield test on Aug. 7, 1967. Gravel packed. 5/
204	do.	do.	1967	50	6	50	do.	--	21.62	Mar. 26, 1969	Sub, E 2	Irr	Slotted from 35 to 50 ft. Power and yield test on July 25, 1967. Gravel packed. Texas Water Development Board observation well. 4/ 5/
205	do.	Comco Drilling Co.	1967	50	8	50	do.	--	--	--	Sub, E 2	Irr	Slotted from 35 to 50 ft. Power and yield test on July 25, 1967. Gravel packed. 5/
206	do.	do.	1967	50	8	50	do.	--	--	--	Sub, E 2	Irr	Do.
* 302	U.S. Army Corps of Engineers	Jones Drilling Co.	1964	66	--	--	do.	--	--	--	--	P	--
* 303	do.	do.	1964	63	--	--	do.	--	--	--	--	P	--
501	Alton McDonald	Hoff Irrigation Co.	1964	64	6	64	do.	--	27	July 14, 1965	T, E 5	Irr	Estimated yield 60 gpm. 1/
502	do.	Jack Leonard Drilling Co.	1965	116	8	116	Kho	1,287	81.43 67.35	July 29, 1965 Mar. 27, 1969	Sub, E 5	Irr	Completed from 95 to 116 ft. Pump set at 114 ft. Reported yield 120 gpm. Measured yield 67 gpm. Power and yield test on June 29, 1966. Gravel packed. Texas Water Development Board observation well. 1/ 4/ 5/
* 503	Brooks Kerley	Steward Drilling Co.	1964	125	8	89	Ktp	--	88.52	July 15, 1965	Sub, E 5	Irr	Pump set at 118 ft. Reported yield 115 gpm. Temp. 70°F.
504	Lloyd Biggs	Pickett Drilling Co.	1964	126	7	126	do.	1,291	61.29	Sept. 29, 1965	Sub, E 7-1/2	Irr	Completed from 60 to 78 and 94 to 120 ft. Pump set at 118 ft. Reported yield 180 gpm. Gravel packed. 1/
505	R. H. Skurlock	Harris Drilling Co.	1966	114	8	114	do.	1,280	--	--	Sub, E 5	Irr	Slotted from 38 to 48, 56 to 66 and 92 to 114 ft. Power and yield test on Aug. 4, 1966. Gravel packed. 1/ 5/
506	do.	do.	1966	113	8	113	do.	--	--	--	Sub, E 7-1/2	Irr	Slotted from 18 to 25, 40 to 45, 60 to 65 and 96 to 113 ft. Reported yield 80 gpm. Power and yield test on Aug. 4, 1966. Gravel packed. 1/ 5/
601	Rhea T. Wolf	Hoff Irrigation Co.	1934	125	8	50	do.	--	50	Nov. 16, 1959	T, E 5	Irr	Pump set at 110 ft. Reported yield 75 gpm. 1/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	DY-41-04-602	Rhea T. Hoff	Hoff Irrigation Co.	--	130	7	73	Ktp	--	50.39	July 12, 1965	T, E 5	Irr	Open hole completion from 73 to 130 ft. Pump set at 110 ft. Reported yield 300 gpm. 1/
	603	do.	do.	1954	130	--	--	do.	1,273	50 39.32	Nov. 16, 1959 Mar. 27, 1969	T, E 5	Irr	Open hole completion from 0 to 130 ft. Reported yield 65 gpm. Texas Water Development Board observation well. 1/ 4/
	604	do.	do.	1963	86	8	43	do.	--	21.94	July 12, 1965	T, E 3	Irr	Open hole completion from 43 to 86 ft. Pump set at 65 ft. Reported yield 150 gpm. 1/
*	701	Comanche Public School	do.	1951	88	7	88	Khe	1,372	25.80 26.00	July 6, 1965 Mar. 26, 1969	Sub, E 1	Irr	Completed from 32 to 52 and 73 to 83 ft. Estimated yield 50 gpm. Temp. 71°F. Texas Water Development Board observation well. 1/ 4/
	801	Ed Burdette	George Bolton	1953	138	8	138	Ktp	--	39.45 38.54	Oct. 20, 1959 June 22, 1966	Sub, E	Irr	Completed from 91 to 138 ft. Reported yield 150 gpm.
	901	Floyd Prather	Steward Drilling Co.	1955	207	14	207	do.	--	61.80	July 7, 1965	Sub, E 7-1/2	Irr	Completed from 70 to 207 ft. Pump set at 200 ft. Reported yield 140 gpm.
	902	do.	do.	--	180	14	180	do.	--	30 30.08 30.51	Oct. 20, 1959 July 7, 1965 June 22, 1966	T, E 10	Irr	Completed from 0 to 180 ft. Reported yield 175 gpm.
*	05-102	U.S. Army Corps of Engineers	Jones Drilling Co.	1964	80	--	--	do.	1,175	51	Oct. 26, 1964	--	P	Pumping level 65 ft at 10 gpm on Oct. 26, 1964.
*	103	do.	do.	1964	93	--	--	do.	1,210	66	Oct. 23, 1964	--	P	Pumping level 75 ft at 10 gpm on Oct. 23, 1964.
*	104	do.	do.	1964	84	--	--	do.	1,200	37	Oct. 26, 1964	--	P	Pumping level 44 ft at 10 gpm on Oct. 26, 1964.
*	105	do.	J. L. Myers Sons	1961	110	8 5	68 110	Kho	1,210	50.96	Mar. 27, 1969	Sub, E	P	Screened from 69 to 79 ft. Pump set at 100 ft. Gravel packed. Well drilled to 175 ft and plugged back to 110 ft. Texas Water Development Board observation well. 1/ 2/ 4/
	202	John Croft	Steward Drilling Co.	1964	100	6	100	Ktp	1,190	36.74 24.46	July 30, 1965 Mar. 27, 1969	Sub, E 5	Irr	Reported yield 125 gpm. Gravel packed. Texas Water Development Board observation well. 4/
	203	L. O. Sturkie	do.	1955	104	12	104	do.	1,202	40	Dec. 7, 1959	T, E 5	S	Completed from 69 to 104 ft. Reported yield 150 gpm.
	204	Joe Dorsey	N. L. Box Drilling Contractor	1959	97	8	87	do.	1,185	21 24.32	Jan. 19, 1960 Mar. 27, 1969	Sub, E	Irr	Completed from 21 to 30 and 37 to 81 ft. Reported yield 75 gpm. Texas Water Development Board observation well. 1/ 4/
	205	Ray Carlton	do.	--	--	5	--	do.	1,240	--	--	Sub, E 3	Irr	Pump set at 85 ft. Reported yield 70 gpm. Measured yield 34.4 gpm. Power and yield test on Aug. 2, 1966. 5/
	206	Bob Brannon	Hoff Irrigation Co.	1955	106	8	106	do.	1,212	40	July 9, 1965	T, E 5	Irr	Completed from 45 to 50, 70 to 80 and 90 to 105 ft. Reported yield 110 gpm. Measured yield 71 gpm. Power and yield test on June 21, 1966. 5/
	207	do.	do.	1956	106	8	106	do.	1,212	40	do.	T, E 5	Irr	Completed from 45 to 50, 70 to 80 and 90 to 105 ft. Reported yield 110 gpm. Measured yield 51 gpm. Power and yield test on June 21, 1966. 5/
*	208	Fred Rackley	George Bolton	1963	124	8	124	do.	1,191	26.14	June 22, 1966	Sub, E 5	Irr	Completed from 40 to 124 ft. Pump set at 105 ft. Reported yield 100 gpm. Gravel packed. Temp. 70°F.
	209	Ben Clement	J. T. Brown Water Well Driller	--	150	7	150	do.	1,220	60.51 48.17	July 30, 1965 June 27, 1966	Sub, E 5	Irr	Pump set at 119 ft. Gravel packed.
	210	Mary Kay Hamlett	Lightfoot and McCrum	1965	125	8	125	do.	1,155	35	Aug. 4, 1965	Sub, E 5	Irr	Completed from 45 to 50 and 60 to 115 ft. Power and yield test on Aug. 2, 1966. Gravel packed. 1/ 5/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	DY-41-05-211	Mary Kay Hamlett	Lightfoot and McCrum	1965	126	8	126	Ktp	1,155	35	Aug. 9, 1965	Sub, E 5	Irr	Completed from 35 to 40, 55 to 67 and 75 to 115 ft. Power and yield test on Aug. 2, 1966. Gravel packed. 1/ 5/
	212	Ray Carleton	Doc McMillian Water Wells	1964	136	8	136	do.	1,240	--	--	Sub, E 3	Irr	Slotted from 96 to 136 ft. Pump set at 134 ft. Measured yield 50 gpm. Power and yield test on Aug. 2, 1966. Gravel packed. 5/
	213	do.	do.	1964	142	8	142	do.	1,240	--	--	Sub, E 7-1/2	Irr	Slotted from 102 to 142 ft. Pump set at 133 ft. Measured yield 100 gpm. Power and yield test on Aug. 2, 1966. Gravel packed. 5/
	214	Joe Dorsey	Holdridge Drilling Co.	1966	105	8	105	do.	1,191	22.88	June 21, 1966	--	Irr	Perforated. 1/
*	502	R. W. Evans	Curtis Alford Drilling and Well Service	1957	140	12 7	132 140	do.	1,185	78 65	Nov. 4, 1959 July 1, 1965	T, E 5	Irr	Perforated from 68 to 128 ft. Pump set at 125 ft. Reported yield 85 gpm. Measured yield 56.5 gpm. Power and yield test on Aug. 2, 1966. Gravel packed. Temp. 74°F. 1/ 5/
*	503	Irvin Dunn	George Bolton	1963	156	8	156	do.	1,230	39.23 40.68	July 9, 1965 Mar. 27, 1969	Sub, E 7-1/2	Irr	Completed from 86 to 156 ft. Pump set at 145 ft. Reported yield 150 gpm. Measured yield 218.1 gpm. Power and yield test on Aug. 2, 1966. Gravel packed. Temp. 70°F. Texas Water Development Board observation well. 4/ 5/
*	801	George Stephens	Ellis Hilliard	1956	85	30	85	do.	1,130	25 22.66	Oct. 2, 1959 Mar. 27, 1969	T, E 5	Irr	Completed from 55 to 85 ft. Reported yield 100 gpm. Temp. 70°F. Texas Water Development Board observation well. 4/
*	901	Guy B. Moore	Steward Drilling Co.	1956	142	12	142	do.	1,165	71 67.60	Oct. 2, 1959 Mar. 27, 1969	T, E 7-1/2	Irr	Reported yield 66 gpm. Texas Water Development Board observation well. 4/
*	902	J. A. Thompson	do.	1956	118	10	118	do.	1,140	24 19.67	Oct. 2, 1959 Mar. 27, 1969	T, E 5	Irr	Completed from 20 to 118 ft. Pump set at 108 ft. Reported yield 156 gpm. Gravel packed. Temp. 69°F. Texas Water Development Board observation well. 4/
	903	Cullen Stephens	Hoff Irrigation Co.	1953	90	6	90	do.	1,122	--	--	T, E 2	Irr	Completed from 60 to 85 ft. Pump set at 80 ft. Reported yield 50 gpm.
	904	do.	Curtis Alford Drilling and Well Service	1956	90	10	90	do.	1,122	30 21.44	Oct. 27, 1959 June 30, 1965	T, E 3	Irr	Completed from 60 to 85 ft. Pump set at 80 ft. Reported yield 80 gpm.
	905	George Stephens	Steward Drilling Co.	--	137	12	137	Khe, Kho	1,145	49.3	July 1, 1965	Sub, E 5	Irr	Perforated from 37 to 43 and 100 to 137 ft. Pump set at 137 ft. Measured yield 60 gpm. Power and yield test on July 27, 1966. Gravel packed. 5/
*	906	D. W. Moore	do.	1964	122	6	122	Ktp	1,150	56.13 37.46	July 2, 1965 June 22, 1966	Sub, E 3	Irr	Pump set at 117 ft. Reported yield 75 gpm. Gravel packed. Temp. 69°F.
	907	Thurman Boucher	do.	--	156	8	--	do.	1,200	64.14	July 5, 1965	Sub, E 7-1/2	Irr	--
*	06-501	J. W. Barbee	Texas Irrigation Sales, Inc.	1959	250	6	250	Khe	1,270	122 125.18	Oct. 26, 1959 Mar. 27, 1969	Sub, E 7-1/2	D, S	Perforated from 230 to 250 ft. Temp. 72°F. Texas Water Development Board observation well. 4/
	601	W. A. Springer	J. T. Brown Water Well Driller	1965	213	7 5	84 212	do.	1,280	175	Aug. 18, 1965	C, W	D	Slotted from 170 to 212 ft. Pump set at 189 ft. 1/
*	701	W. D. Bryson	Steward Drilling Co.	1959	190	10	180	Kho	1,170	66 66.57	Oct. 26, 1959 Mar. 27, 1969	T, E 20	Irr	Completed from 170 to 180 ft. Open hole from 180 to 190 ft. Reported yield 175 gpm. Temp. 70°F. Texas Water Development Board observation well. 4/
	901	Sherman Henson	Tatum Drilling Co.	1963	150	5	150	Khe	1,195	60.37 112.65	June 28, 1965 Mar. 27, 1969	Sub, E 3/4	D	Completed from 120 to 150 ft. Pump set at 140 ft. Reported yield 16 gpm. Texas Water Development Board observation well. 1/ 4/
	07-701	Travis Lincecum	Alford James Price	1966	118	10	--	do.	1,125	60.97	July 11, 1968	N	N	Reported yield 25 gpm. 1/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* DY-41-11-803	J. M. Foreman	--	1920	100	6	100	Kp	--	80	Jan. 19, 1960	C, E	D	
* 12-101	City of Comanche	George Bolton	1946	123	10	123	Kgr, Khe	1,448	14 9.80	Sept. 3, 1946 Mar. 27, 1969	N	N	Reported yield 80 gpm when well was used. Texas Water Development Board observation well. 1/ 2/ 4/
201	Brady York	Steward Drilling Co.	1954	147	10	147	Khe	1,386	64 62.56	Oct. 20, 1959 Mar. 27, 1969	N	N	Completed from 87 to 147 ft. Reported yield 400 gpm when well was used. Texas Water Development Board observation well. 2/ 4/
301	Max Keeler	do.	1954	180	16	180	Ktp	--	65 46.28 48.47	Oct. 19, 1959 July 2, 1965 June 22, 1966	T, E 15	S, Irr	Completed from 130 to 165 ft. Pump set at 165 ft. Estimated yield 175 gpm.
302	M. B. Carter	Hoff Irrigation Co.	1958	60	5	60	Khe	--	39 33.93	Oct. 20, 1959 July 2, 1965	Sub, E	N	Completed from 0 to 60 ft. Reported yield 20 gpm when well was used.
303	Buster McDonald	Steward Drilling Co.	1957	150	10	150	Ktp	1,258	140 16.60 18.06	July 26, 1965 Apr. 14, 1966 Mar. 15, 1967	T, N 7-1/2	Irr	Slotted from 25 to 150 ft. Pump set at 147 ft. Reported yield 120 gpm. Measured yield 95.7 gpm. Power and yield test on July 12, 1966. Gravel packed. 5/
304	do.	do.	1963	165	8 7	110 165	do.	1,256	100 32.82	July 26, 1965 Mar. 27, 1969	Sub, E 10	Irr	Well deepened from 110 to 165 ft in 1963. Completed from 30 to 110 and 110 to 165 ft. Pump set at 160 ft. Reported yield 120 gpm. Measured yield 69.8 gpm. Power and yield test at sprinkler on June 21, 1966. Gravel packed. Texas Water Development Board observation well. 4/ 5/
* 901	J. B. Pogue	--	--	70	6	--	Khe	--	50	Jan. 18, 1960	T, E	D, S	
13-101	Dalton Perkins	Steward Drilling Co.	1954	150	16	150	Khe, Kho	1,265	36	Oct. 20, 1959	T, E 7-1/2	Irr	Slotted from 30 to 150 ft. Pump set at 145 ft. Reported yield 150 gpm. Measured yield 92.3 gpm. Power and yield test on Aug. 4, 1966. 5/
102	do.	do.	--	140	10	140	do.	1,265	60 37.16 37.94	July 5, 1965 June 22, 1966 June 29, 1966	N	N	Slotted from 30 to 140 ft. 2/
* 103	do.	do.	1965	145	8	145	do.	1,250	61.45	July 5, 1965	Sub, E 5	Irr	Completed from 30 to 145 ft. Pump set at 138 ft. Reported yield 125 gpm. Gravel packed. Temp. 70°F.
201	Chester Evans	Willingham and Hilliard	1955	160	5	155	Kho	1,270	33.79 30.87	July 2, 1965 Apr. 2, 1969	T, N 3	Irr	Completed from 120 to 155 ft. Pump set at 150 ft. Reported yield 85 gpm. Measured yield 30 gpm. Power and yield test on Aug. 8, 1967. Gravel packed. Texas Water Development Board observation well. 4/ 5/
202	do.	Pettit and Kight Drilling Co.	1967	155	6	155	do.	1,210	--	--	Sub, E 3	Irr	Slotted from 130 to 155 ft. Pump set at 150 ft. Measured yield 21.3 gpm. Power and yield test on Aug. 8, 1967. Gravel packed. 5/
301	Gustine Water Supply Corp.	Andrews and Foster	1966	173	6	173	Khe, Kho	1,190	48.14	Jan. 4, 1967	Sub, E 3	P	Completed from 58 to 70, 140 to 148, and 160 to 168 ft. Pumping level 158 ft at 48 gpm in Dec. 1966. Gravel packed. Cemented from 58 ft to surface. Well drilled to 255 ft and plugged back to 173 ft. Texas Water Development Board observation well. 1/ 2/ 4/
14-101	J. D. Allen	Steward Drilling Co.	1959	137	10	137	Ktp	1,115	44 47.74	Oct. 16, 1959 June 30, 1965	N	N	Reported yield 150 gpm in 1959.
* 102	R. E. Adcock	Do.	1956	179	10	--	do.	1,155	72 67.46	Oct. 16, 1959 Mar. 27, 1969	T, E 15	Irr	Pumping level 128 ft at 175 gpm on Oct. 16, 1959. Temp. 72°F. Texas Water Development Board observation well. 4/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW (-) LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-41-14-103	L. H. Estes	Steward Drilling Co.	1955	170	10	--	Ktp	1,155	77 98.31	Oct. 27, 1959 June 29, 1965	T, E 13	Irr	Reported yield 200 gpm.
* 105	J. D. Allen	do.	1964	155	8	155	do.	1,140	76.59	June 30, 1965	T, E 15	Irr	Pump set at 153 ft. Estimated yield 135 gpm. Gravel packed. Temp. 70°F.
* 106	O. L. Kingsbury	Petit and Kight Drilling Co.	1966	182	8	182	Kho	1,165	88.15 76.79	Dec. 6, 1966 Dec. 12, 1966	T, E 5	Irr	Slotted from 155 to 180 ft. Pumping level 159 ft at 61.1 gpm on Dec. 13, 1966. Pump set at 177 ft. Measured yield 30 gpm. Power and yield test on Aug. 4, 1966. Gravel packed. Temp. 70°F. 1/ 3/ 5/
107	do.	do.	1966	183	--	183	do.	1,158	45.05	Dec. 12, 1966	T, E 15	Irr	Slotted from 150 to 180 ft. Pump set at 177 ft. Reported yield 53 gpm. Measured yield 53.3 gpm. Power and yield test on Aug. 4, 1966. Gravel packed. 1/ 3/ 5/
108	Brent Daniel	Iredell Drilling	1966	180	10	180	do.	1,158	25	Apr. 16, 1966	Sub, E 5	Irr	Slotted from 130 to 180 ft. Pump set at 165 ft. Reported yield 90 gpm. Gravel packed. 1/
301	Glen McGlothlin	Roy Michael	1954	215	16	180	Ktp	1,065	21	Jan. 27, 1960	T, G 52	N	Completed from 20 to 180 ft. Pump set at 180 ft. Reported yield 300 gpm.
302	do.	do.	1954	300	16	200	do.	1,065	19	do.	N	N	Perforated from 20 to 200 ft. Reported yield 200 gpm in 1954. Well drilled to 900 ft and plugged back to 300 ft. Well caved in and was abandoned. 1/
* 303	Ruel Eddleman	Curtis Alford Drilling and Well Service	1963	150	8	150	Khe	1,070	27 34.20	June 29, 1965 Mar. 27, 1969	Sub, E	Irr	Perforated from 27 to 150 ft. Gravel packed. Temp. 69°F. Texas Water Development Board observation well. 1/ 4/
304	Rosco White	Tatum Drilling Co.	1963	112	5	112	do.	1,170	91.56	June 28, 1965	Sub, E 1/2	S	Completed from 84 to 108 ft. Pump set at 102 ft. Reported yield 16 gpm. 1/
305	J. N. Thompson	do.	1966	188	12 7	72 188	Khe, Kho	1,065	34	Feb. 10, 1966	Sub, K 7-1/2	Irr	Slotted from 80 to 87, 130 to 163, and 173 to 188 ft. Pumping level 88 ft at 250 gpm on Feb. 10, 1966. Pump set at 176 ft. Measured yield 96.7 gpm. Power and yield test at sprinkler on Aug. 8, 1967. 1/ 5/
402	Russell Hayes	Iredell Drilling	1966	185	10	185	Kho	1,168	30	1966	Sub, E 3	Irr	Perforated from 125 to 185 ft. Pump set at 175 ft. Reported yield 90 gpm. Gravel packed. 1/
* 701	Gayle Isham, Jr.	Tatum Drilling Co.	1966	335	5	335	Khe	1,370	235 252.0	Apr. 16, 1966 Mar. 27, 1969	Sub, E 3	D, S	Perforated from 280 to 335 ft. Pump set at 330 ft. Reported yield 30 gpm. Temp. 74°F. Texas Water Development Board observation well. 1/ 4/
803	Elsie M. Rea	L. W. Little Drilling Co.	1962	255	4	255	Kgr, Khe	1,342	180	June 1, 1962	C, E 3/4	S	Slotted from 168 to 232 ft. Pumping level 184 ft at 8 gpm on June 1, 1962. Gravel packed. 1/
15-101	H. C. Aytes	Leon Drilling Co.	1964	176	10	176	Khe	1,120	37	Nov. 22, 1964	T, G 58	Irr	Slotted from 66 to 90, 110 to 130, and 150 to 172 ft. Pump set at 157 ft. Reported yield 350 gpm. Gravel packed. Cemented from 20 to 30 ft. 1/
401	F. L. Stephens	Tatum Drilling Co.	1966	205	7	205	Khe, Kho	1,082	37 48.57	Jan. 28, 1966 Mar. 27, 1969	Sub, K 7-1/2	Irr	Slotted from 53 to 87 and 185 to 196 ft. Pumping level 100 ft at 185 gpm on Jan. 28, 1966. Pump set at 194 ft. Texas Water Development Board observation well. 1/ 4/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* 21-201	Roy Henson	Steward Drilling Co.	--	111	6	108	Kp	1,525	71 70.03	Jan. 18, 1960 Mar. 27, 1964	C, W	D, S	Open hole completion from 108 to 111 ft. Texas Water Development Board observation well. 4/

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For results of pumping tests, yields and specific capacities of wells, see Table 4, Volume I.
4/ For water-level measurements, see Table 4.
5/ For power and yield test on well, see Table 10, Volume I.

COMANCHE COUNTY

Table 2.--Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric; R, Radioactive; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
DY-31-57-607	Lone Star Gas Co.	J. C. Watkins No. 1	1940	2,796	1,590	S
41-02-602	Frank Gilliam	C. C. Ross No. 1	1950	2,589	1,490	E
604	John W. Bartlett	D. E. Steel No. 1	1955	2,714	1,480	R
03-501	Orville H. Parker	Ferrill No. 1	1949	2,870	1,508	E
11-201	Texas Crude Oil	Dudley Ranch No. 1	1950	2,775	1,704	S
301	Sun Oil Co.	E. E. Bryson No. 1	1929	3,135	1,520	D
411	Lloyd N. Smith	Gail Dudley No. 1	1950	2,684	1,834	E
802	Humble Oil and Refining Co.	J. M. Foreman No. 1	1955	4,380	1,667	E
901	Jack C. Staley, et al.	R. M. Ratlife No. 1	1955	3,005	1,654	E
13-501	J. J. Lynn	R. E. Manning No. 1	1949	4,002	1,176	E
14-401	Humble Oil and Refining Co.	Macksville Oil Unit	1956	4,300	1,126	E
19-301	United North and South Development Co.	J. B. Aldridge, et al. No. 1	1950	4,913	1,680	E
20-201	Humble Oil and Refining Co.	Mrs. Frankie W. Durham No. 1	1957	3,319	1,445	E
21-301	Placid Oil Co.	Pettit No. 1	1942	3,276	1,445	E

Table 3.—Drillers' Logs of Selected Wells

Well DY-31-51-308

Owner: Robert C. Atchison
Driller: Continental Water Well Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Sand - sandy clay	20	20
Sand - sandstone	40	60
Blow - sand	50	110
Sand - sandstone	32	142
Sandstone	18	160

Well DY-31-51-309

Owner: Robert C. Atchison
Driller: Continental Water Well Drilling Co.

Sand	15	15
Sandy clay	21	36
Sand	74	110
Sand - gravel	5	115
Sand - sandstone	67	182
Gray sandstone	15	197
Blue shale	3	200

Well DY-31-51-603

Owner: George Warren
Driller: N. L. Box Drilling Contractor

Soil	3	3
Yellow clay	3	6
Sand	9	15
Gravel and clay	30	45
Yellow clay	10	55
Blue shale	1	56

Well DY-31-51-604

Owner: George Warren
Driller: N. L. Box Drilling Contractor

Soil	3	3
Sand and clay	16	19
Gravel	4	23
Lime	2	25

Well DY-31-51-604—Continued

Sand and gravel	19	44
Yellow clay	2	46
Pink clay	10	56
Blue shale	2	58

Well DY-31-51-605

Owner: R. A. Barnett
Driller: N. L. Box Drilling Contractor

Soil	3	3
Sand	7	10
Sandstone	5	15
Sand	12	27
Water gravel	12	39
Sand and clay	14	53
Gravel	18	71
Yellow clay	3	74
Blue shale	1	75

Well DY-31-51-608

Owner: Mrs. Rainey
Driller: Robert Lee-Bob-Barnhill

Topsoil - sand	2	2
Shale, yellow	31	33
Sand rock - white	2	35
Shale, yellow	7	42
Sand, soft white, water	22	64
Red shale	11	75
Coarse sand (water)	16	91
Yellow shale	14	105

Well DY-31-51-609

Owner: R. A. Barnett
Driller: N. L. Box Drilling Contractor

Soil	5	5
Sand - water (10 gpm)	7	12
Lime	2	14

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-51-609—Continued		
Sand and gravel	14	28
Lime	8	36
Broken lime and gravel	16	52
Gravel	14	66
Tight coarse sand	6	72
Blue shale	6	78
Well DY-31-51-610		
Owner: R. A. Barnett Driller: N. L. Box Drilling Contractor		
Sand	10	10
Water sand	10	20
Tight gravel	4	24
Lime	2	26
Tight gravel	8	34
Tight sand	4	38
Tight sand and gravel	22	60
Blue shale	3	63
Well DY-31-51-611		
Owner: R. A. Barnett Driller: N. L. Box Drilling Contractor		
Sand	6	6
White sand - little water	6	12
Lime and sand	12	24
Gravel	2	26
Tight sand and gravel	17	43
Tight sand and gravel	11	54
Sand and gravel	16	70
Blue shale	5	75
Well DY-31-51-612		
Owner: George Warren Driller: N. L. Box Drilling Contractor		
Soil	2	2
Clay	6	8
Sandstone	5	13
Sand and gravel	25	38
Blue and yellow clay	7	45
Well DY-31-51-613		
Owner: Arnold Butler Driller: Continental Water Well Drilling Co.		
Sand	3	3
Clay	9	12
Sand - gravel - (water)	8	20
Sandstone	2	22
Clay	2	24
Sandstone - clay stringers	4	28
Clay	10	38
Sandstone	26	64
Blue shale	2	66
Sandstone	22	88
Blue shale	12	100
Well DY-31-51-805		
Owner: Ray Williams Driller: Sam H. Smith Drilling Contractor		
Sand	3	3
Clay	7	10
Sand and gravel	2	12
Sandy clay	83	95
Conglomerate	65	160
Clay	10	170
Well DY-31-51-806		
Owner: J. B. Hodges Driller: M. and L. Drilling Co.		
Red sandy clay	15	15
Yellow clay	25	40
Water sand	15	55
Sand and shale	10	65
Clay	5	70
Blue shale	58	128

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-51-806—Continued		
Sand	12	140
Broken sand	10	150
Sand	15	165
Blue shale	10	175
Blue gumbo shale	55	230
Black shale	6	236
Sandy lime	14	250
Shale	1	251
Well DY-31-52-403		
Owner: Cedric Bettis Driller: A. L. Varner		
Sand	3	3
Clay	12	15
Sand and gravel	5	20
Red bed	32	52
Lime	11	63
Water sand and gravel	5	68
Lime	4	72
Sand and gravel	8	80
Lime	5	85
Yellow clay	10	95
Well DY-31-52-404		
Owner: Cedric Bettis Driller: A. L. Varner		
Sand	3	3
Clay	22	25
Sand	20	45
Sand and gravel	15	60
Yellow clay	9	69
Blue shale	1	70
Well DY-31-52-405		
Owner: Herman Gilder Driller: Lightfoot and McCrum		
Soil	3	3
Red and blue clay	4	7

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-52-405—Continued		
Sand - water- 30 gpm	8	15
Lime	1	16
Red shale	4	20
Sand - water - 20 gpm	25	45
Small gravel - 35 gpm	7	52
Blue shale	6	58
Well DY-31-52-406		
Owner: Herman Gilder Driller: Lightfoot and McCrum		
Soil	1	1
Yellow and blue clay	16	17
Lime	5	22
Red clay	14	36
Sand and gravel (water)	10	46
Lime	4	50
Sand and gravel (water)	10	60
Sandy lime	2	62
Sandy and gravel (water)	5	67
Red clay	3	70
Yellow and blue clay	10	80
Well DY-31-52-407		
Owner: Herman Gilder Driller: Ardean Kimmell Irrigation Service		
Surface	6	6
Sandy shale	12	18
Sand and gravel	17	35
Sand	13	48
Hard sand	8	56
Gravel	11	67
Conglomerate	11	78
Well DY-31-52-408		
Owner: N. B. Gilbreath Driller: Lightfoot and McCrum		
Sandy soil	2	2
Blue sand, clay	18	20

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

Well DY-31-52-408—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Water sand	4	24
Sandy lime	2	26
Red clay	2	28
Sandy blue clay	6	34
Red bed	14	48
Lime	2	50
Blue sandy clay	10	60
Gravel (water)	11	71
Yellow clay	9	80

Well DY-31-52-409

Owner: N. B. Gilbreath
Driller: Lightfoot and McCrum

Sand	1	1
Red and blue clay	17	18
Water sand	7	25
Lime	2	27
Red sandy clay	8	35
Red bed	5	40
Sand	5	45
Red bed	10	55
Blue and white clay	5	60
Sand and gravel (water)	13	73
Yellow and blue clay	11	84

Well DY-31-52-410

Owner: N. B. Gilbreath
Driller: Lightfoot and McCrum

Red and blue clay	7	7
Blue sandy clay	8	15
Lime	2	17
Sandy clay (red)	10	27
Red clay	8	35
Sand	7	42
Red bed	13	55
Sand and gravel (water)	16	71
Yellow clay	9	80

Well DY-31-52-501

Owner: N. L. Box
Driller: N. L. Box Drilling Contractor

Soil and clay	10	10
Red bed	20	30
Sand	12	42
Water gravel	6	48
Lime	2	50
Hard lime	3	53
Broken lime	5	58
Water gravel	6	64
Yellow clay	6	70
Sandstone	7	77
Yellow clay	13	90

Well DY-31-52-502

Owner: Clarence Craig
Driller: N. L. Box Drilling Contractor

Sand and sandstone	11	11
Water sand	3	14
Red clay	16	30
Sand and clay	12	42
Sand and white clay	13	55
Tight sand (water)	17	72
Water gravel	13	85
Yellow clay	6	91

Well DY-31-52-503

Owner: N. L. Box
Driller: N. L. Box Drilling Contractor

Sand and clay	20	20
Water sand	3	23
Red bed	17	40
Sand	5	45
Sand, clay, and lime	15	60
Sand, gravel, and lime	20	80
Yellow and blue clay	3	83

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

Well DY-31-52-504

Owner: Clyde Setzler
Driller: N. L. Box Drilling Contractor

	THICKNESS (FEET)	DEPTH (FEET)
Red clay	32	32
Sand, dry	5	37
Water sand and gravel	27	64
Yellow clay	10	74

Well DY-31-52-506

Owner: George Guest
Driller: Alford James Price

	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	4	4
Red clay	29	33
Sand	10	43
Soapstone	3	46
Sand and gravel (water)	6	52
Yellow clay	3	55
Red shale	6	61
Yellow clay	9	70
Sandy oil shale	3	73
Blue shale	14	87

Well DY-31-52-507

Owner: George Guest
Driller: Alford James Price

	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	2	2
Sandy clay	5	7
Dry sand	3	10
Rock	1	11
Yellow clay	5	16
Red clay, shale	5	21
Dry sand	3	24
Yellow clay	3	27
Rock	2	29
Red shale	5	34
Dry sand	5	39
Sand and gravel (water)	7	46
Soapstone	2	48
Red shale	5	53
Soapstone	3	56
Sand (water)	3	59

Well DY-31-52-507—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Sandy clay	2	61
Sand and gravel (water)	3	64
Clay	1	65

Well DY-31-52-605

Owner: B. E. Hanson
Driller: J. T. Carson

	THICKNESS (FEET)	DEPTH (FEET)
Soil	5	5
Dry sand	30	35
Water sand	35	70
Clay	18	88

Well DY-31-52-606

Owner: B. E. Hanson
Driller: Lightfoot and McCrum

	THICKNESS (FEET)	DEPTH (FEET)
Red clay	15	15
Sandy clay	10	25
Sand (hard)	5	30
Lime	3	33
Sand	5	38
Water sand	40	78
Yellow clay	4	82
Blue shale	22	104

Well DY-31-52-607

Owner: B. E. Hanson
Driller: J. T. Carson

	THICKNESS (FEET)	DEPTH (FEET)
Soil	2	2
Clay	10	12
Sandy shale	10	22
Lime	5	27
Sand	13	40
Lime	5	45
Water sand	40	85
Clay and shale	10	95

Well DY-31-52-609

Owner: C. H. George
Driller: Robert Lee-Bob-Barnhill

	THICKNESS (FEET)	DEPTH (FEET)
Sand and gravel, water	28	28
Hard sand	2	30
Gravel, water	13	43

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-52-609—Continued		
Red shale	11	54
Sand and shale	9	63
Sand	24	87
Red shale	3	90
Gravel	8	98
Hard sand	8	106
Shale	25	131
Well DY-31-52-610		
Owner: B. E. Hanson Driller: Lightfoot and McCrum		
Red clay	15	15
Sandy clay	10	25
Sand - hard	5	30
Lime	3	33
Sand	5	38
Water sand	40	78
Yellow clay	4	82
Blue shale	22	104
Well DY-31-52-611		
Owner: L. V. Park Driller: Ardean Kimmell Irrigation Service		
Sand	2	2
Brown shale	4	6
Sand	9	15
Gravel	20	35
Sand	10	45
Gravel	11	56
Hard gravel	4	60
Brown shale	10	70
Blue shale	7	77
Well DY-31-52-612		
Owner: L. V. Park Driller: Ardean Kimmell Irrigation Service		
Surface	5	5
Brown shale	5	10
Gravel	8	18
Sand	9	27
Gravel	9	36

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-52-612—Continued		
Brown shale	22	58
Light blue shale	7	65
Sand	8	73
Gravel	9	82
Brown shale	10	92
Well DY-31-52-613		
Owner: L. V. Park Driller: Ardean Kimmell Irrigation Service		
Sand	4	4
Conglomerate	5	9
Sand	36	45
Shale	4	49
Hard gravel	4	53
Shale	17	70
Sand	22	92
Brown shale	4	96
Sand	9	105
Hard sand	3	108
Light blue shale	8	116
Well DY-31-52-701		
Owner: R. Robinson Driller: N. L. Box Drilling Contractor		
Clay, sand, and sandstone	21	21
Red bed	26	47
Sand - little water	7	54
Sand and gravel	13	67
Well DY-31-52-704		
Owner: Claude DeVoll Driller: Lightfoot and McCrum		
Red clay	15	15
Blue sandy clay	10	25
Sandy lime	1	26
Blue clay	4	30
Lime	2	32
Sand	15	47
Sand (water)	10	57
Sandy lime	4	61
Gravel (water)	11	72
Blue clay	8	80

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

Well DY-31-52-705

Owner: Claude DeVoll
Driller: Lightfoot and McCrum

	THICKNESS (FEET)	DEPTH (FEET)
Red clay	20	20
Sandy clay (red)	4	24
Lime	1	25
Sand	18	43
Lime	1	44
Sand (water)	16	60
Lime	1	61
Red sandy clay	10	71
Sand and gravel (water)	36	107
Yellow clay	9	116
Blue clay	3	119

Well DY-31-52-707

Owner: Dale George
Driller: Robert Lee-Bob-Barnhill

Soil	2	2
Gravel	4	6
Shale	6	12
Sand and gravel, water at 26 ft	18	30
Sand	22	52
Sand, rock	1	53
Sand, soft	14	67
Hard sand	1	68
Gravel	7	75
Shale	7	82

Well DY-31-52-708

Owner: Dale George
Driller: Robert Lee-Bob-Barnhill

Soil	2	2
Gravel	5	7
Sandy shale	5	12
White shale	16	28
Sand and water	7	35
Red sand	9	44
Sand, red - oil	1	45
Sand	7	52
Sand, rock	1	53

Well DY-31-52-708—Continued

Sand	11	64
Sand, rock	2	66
Sand	3	69
Gravel	9	78
Shale	7	85

Well DY-31-52-709

Owner: Dale George
Driller: Lightfoot and McCrum

Sand	21	21
Red clay	11	32
White sand	13	45
Hard sand	4	49
Sand	11	60
Red clay	3	63
Gravel and sand (water)	16	79
Sand (water)	6	85
Sandy lime	12	97
Blue sandy clay	6	103
Blue shale	7	110

Well DY-31-52-801

Owner: Cedric Bettis
Driller: N. L. Box Drilling Contractor

Sand and clay	26	26
Water sand	5	31
Red bed	10	41
Sand and clay	9	50
Sand	6	56
Coarse sand	9	65
Coarse sand	17	82
Red bed	2	84
Lime and gravel	9	93
Coarse sand	8	101
Yellow clay	6	107

Well DY-31-52-802

Owner: E. Joiner
Driller: N. L. Box Drilling Contractor

Sand and clay	12	12
Sand and gravel, dry	8	20

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-52-802—Continued		
Sand and clay	13	33
Red clay	2	35
Sand, water	8	43
Lime	2	45
Sand and wet clay - 6 gpm	12	57
Broken lime	3	60
Red clay	20	80
Blue and red clay	5	85
Sand and clay	3	88
Sand and gravel	9	97
Water gravel, bailed 40 gpm	7	104
Yellow clay	3	107
Well DY-31-52-803		
Owner: Cedric Bettis Driller: A. L. Varner		
Soil and sand	4	4
Clay and gravel	8	12
Sand	10	22
Red bed	26	48
Broken lime	10	58
Lime	2	60
Sand and gravel	29	89
Yellow clay	6	95
Clay	2	97
Well DY-31-52-804		
Owner: John W. Boswell Driller: Johnny Weir Drilling		
Sand	2	2
Clay	12	14
Dry sand	26	40
Sand and gravel	5	45
Hard	5	50
Clay	5	55
Hard	5	60
Clay	5	65
White and gray water sand	9	74
Hard	6	80
Clay	10	90
Sand and small gravel	5	95
Hard	2	97
Sand	10	107
Sand and gravel	12	119
Hard	5	124
Gravel	5	129
Hard	4	133
Clay	7	140
Well DY-31-52-805		
Owner: John W. Boswell Driller: Johnny Weir Drilling		
Sand	5	5
Red clay	7	12
White clay	23	35
White sand and gravel (little water)	10	45
Red clay	10	55
Hard	5	60
Red clay	18	78
Hard	3	81
Red clay	17	98
Sand and gravel	13	111
Hard	3	114
Sand and gravel	8	122
Clay	9	131
Well DY-31-52-806		
Owner: John W. Boswell Driller: Johnny Weir Drilling		
Sand	15	15
Hard sand	10	25
Sandy clay	10	35
Red and pink clay	12	47
Sand (dry)	13	60
Sand (little water)	14	74
Sand	7	81
Hard	3	84
Red clay	6	90
Sand - small gravel	11	101
Hard	3	104

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-52-806—Continued		
Clay	5	109
Gravel	14	123
Gravel	17	140
Clay	6	146
Well DY-31-52-901		
Owner: R. L. George Driller: N. L. Box Drilling Contractor		
Sand and gravel	18	18
Water, sand and gravel	16	34
White clay	5	39
Red bed	8	47
Lime, sand, and white clay	17	64
Water sand	5	69
Coarse sand	4	73
White clay	3	76
Coarse sand	6	82
Broken lime	15	97
Purple clay	5	102
Well DY-31-52-903		
Owner: R. L. George Driller: N. L. Box Drilling Contractor		
Sand and gravel	16	16
Yellow clay	14	30
Light blue clay	16	46
Water sand	20	66
Sand and gravel	11	77
Water sand	16	93
Blue shale	8	101
Well DY-31-52-906		
Owner: Alvis Kimmell Driller: Ardean Kimmell Irrigation Service		
Sand	2	2
Brown shale	8	10
Sand and gravel	17	27
Sand	8	35
Shale, gray	22	57
Sand	16	73
Well DY-31-52-906—Continued		
Brown shale	7	80
Sand and gravel	23	103
Sand	11	114
Well DY-31-52-907		
Owner: Ray Joiner Driller: Johnny Weir Drilling		
Soil	5	5
Gravel	15	20
White clay	10	30
Gray sand	10	40
Lime rock	10	50
Red clay	20	70
Lime	5	75
Gravel	9	84
Lime	6	90
Red sand and gravel	5	95
Lime, very hard	5	100
Gravel	3	103
Clay	7	110
Well DY-31-52-908		
Owner: Ray Joiner Driller: Johnny Weir Drilling		
Soil	5	5
Sand and gravel	10	15
Lime	8	23
Sand	12	35
Lime	25	60
Red clay	25	85
Gravel	9	94
Hard lime	4	98
Gravel	2	100
Yellow and blue clay	11	111
Well DY-31-53-407		
Owner: Ardean Kimmell Driller: N. L. Box Drilling Contractor		
Clay and gravel	14	14
Sand and clay	4	18
Red bed	4	22

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

Well DY-31-53-407—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Sand and clay (little water)	5	27
Sand and gravel, 12 gpm	5	32
Sand and clay	12	44
Water sand and white clay	16	60
Water gravel (baited 60 gpm)	21	81
Broken lime	11	92
Hard lime and gravel	4	96
Hard broken sand	12	108
Hard sand	10	118
Blue shale	2	120

Well DY-31-53-408

Owner: Ardean Kimmell
Driller: Ardean Kimmell Irrigation Service

Sand and clay	28	28
Fine sand	2	30
Fine sand	30	60
Medium sand - clay	12	72
Coarse sand and gravel	20	92

Well DY-31-53-409

Owner: Alvis Kimmell
Driller: Ardean Kimmell Irrigation Service

Sand	2	2
Red clay	6	8
Gravel	11	19
Sand, rock	5	24
Red clay	6	30
Sand, hard	15	45
Sand, soft	40	85
Gravel	15	100
Shale	3	103

Well DY-31-53-410

Owner: Ardean Kimmell
Driller: Ardean Kimmell Irrigation Service

Surface	6	6
Gravel	5	11
Heavy sand	8	19
Brown shale	11	30

Well DY-31-53-410—Continued

Water sand - soft	35	65
Hard sand	14	79
Sand and gravel	6	85
Brown shale	12	97
Blue shale	2	99

Well DY-31-53-414

Owner: Ardean Kimmell
Driller: Ardean Kimmell Irrigation Service

Surface	3	3
Red clay	3	6
Sand and gravel	19	25
Sand and shale	10	35
Gravel	3	38
Brown shale	17	55
Sand	37	92
Gravel	13	105
Shale (blue)	10	115

Well DY-31-53-701

Owner: James D. Gardner
Driller: N. L. Box Drilling Contractor

Sand, gravel, clay	30	30
Red and blue clay	8	38
Sand and clay	5	43
Sandstone and clay	24	67
Broken lime	7	74
Water sand and lime	13	87
Gray lime	5	92
Water gravel	5	97
Lime	2	99
Gravel and blue clay	11	110
Yellow and red clay	6	116

Well DY-31-53-702

Owner: James D. Gardner
Driller: N. L. Box Drilling Contractor

No record	93	93
Lime and sand	7	100
Gravel	7	107
Blue clay	4	111

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-53-702—Continued		
Yellow and red clay	2	113
Yellow and blue clay	7	120
Well DY-31-53-704		
Owner: James D. Gardner Driller: N. L. Box Drilling Contractor		
Sand, clay, and gravel	18	18
Dry gravel	21	39
Water gravel	2	41
White clay	6	47
Broken lime	13	60
Red bed	3	63
Red, blue shale and lime	22	85
Sand water	15	100
Sand and clay	5	105
Broken lime	12	117
Sand and gravel	6	123
Lime	2	125
Yellow clay	5	130
Well DY-31-53-705		
Owner: James D. Gardner Driller: N. L. Box Drilling Contractor		
Sand and clay	8	8
Sand and gravel, seep at 39 ft	31	39
White clay and lime	16	55
Red, blue shale and lime	29	84
Water sand	9	93
Blue clay	4	97
Water gravel	24	121
Yellow clay	5	126
Well DY-31-53-719		
Owner: James D. Gardner Driller: N. L. Box Drilling Contractor		
Sandy clay	6	6
Gravel and sand, little water	21	27
Sand and clay	7	34
Sand water	5	39

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-53-719—Continued		
Lime	2	41
Sand and clay	19	60
Water sand	19	79
Lime	2	81
Hard sand, little gravel	4	85
Lime and gravel	6	91
Lime and clay	7	98
Gravel	13	111
Lime	3	114
Yellow clay	4	118
Well DY-31-53-720		
Owner: Deryl Johnson Driller: Lightfoot and McCrum		
Soil	4	4
Sand and gravel	22	26
Lime	4	30
Red clay	15	45
Sand and water gravel	12	57
Lime	1	58
Water gravel	10	68
Lime	1	69
Water gravel	17	75
Blue green clay	2	77
Water sand and gravel	21	98
Yellow and blue clay	18	116
Well DY-31-53-721		
Owner: Dale Johnson Driller: Lightfoot and McCrum		
Soil	1	1
Clay (red)	2	3
Caliche	5	8
Sandy clay, white	12	20
Sand	5	25
Sand and gravel (water)	15	40
Red bed	11	51
Sandy lime	1	52
Sandy clay, white	8	60

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-53-721—Continued		
Sand (water)	37	97
Blue clay	8	105
Well DY-31-53-722		
Owner: Dale Johnson Driller: Lightfoot and McCrum		
Sand and gravel	34	34
Red clay	28	62
Sand and gravel (water)	14	76
Sandy lime	2	78
Sand and gravel (water)	8	86
Blue green clay	2	88
Gravel (water)	17	105
Blue clay	7	112
Well DY-31-53-724		
Owner: Alvis Kimmell Driller: Ardean Kimmell Irrigation Service		
Surface	5	5
Sand and gravel	15	20
Sand	6	26
Brown shale	16	42
Conglomerate	5	47
Brown shale	11	58
Sand	15	73
Conglomerate	4	77
Gravel	8	85
Conglomerate	11	96
Well DY-31-53-725		
Owner: Alvis Kimmell Driller: Ardean Kimmell Irrigation Service		
Surface	5	5
Gravel	10	15
Yellow clay	5	20
Brown shale	12	32
Sand	8	40
Brown shale	16	56
Sand	8	64
Hard gravel	10	74
Brown shale	6	80
Well DY-31-53-726		
Owner: P. R. George Driller: N. L. Box Drilling Contractor		
Soil and clay	10	10
Sand clay	5	15
Gravel	15	30
Red bed	3	33
Blue clay	7	40
Sand and water	10	50
Sandstone, hard	7	57
Sand and gravel	38	95
Blue shale	7	102
Well DY-31-53-727		
Owner: P. R. George Driller: N. L. Box Drilling Contractor		
Sand and clay	8	8
Sandy clay	12	20
Gravel and sand - little water	10	30
Red bed	3	33
Gravel and clay	12	45
Sand and gravel	20	65
Hard sandstone	13	78
Gravel and sand	17	95
Blue shale	7	102
Well DY-31-53-728		
Owner: William L. Owens Driller: N. L. Box Drilling Contractor		
Soil	1	1
Clay and gravel	15	16
Sand and clay	6	22
Yellow clay	2	24
Sand and clay	8	32
Water sand	28	60
Gravel and clay	21	81
Purple clay	2	83
Well DY-31-53-729		
Owner: William L. Owens Driller: N. L. Box Drilling Contractor		
Soil and clay	3	3
Lime	2	5

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-53-729--Continued		
Gravel and clay	7	12
Sand (water at 20 ft)	13	25
Gravel	7	32
Gravel and clay	31	63
Purple clay	3	66
Well DY-31-53-730		
Owner: Dale Johnson Driller: Lightfoot and McCrum		
Soil	1	1
Red clay	8	9
Sand and gravel	21	30
Water sand and gravel	5	35
Sand	11	46
Red bed	9	55
Sand	29	84
Blue green clay	1	85
Sand and gravel	18	103
Blue shale	7	110
Well DY-31-53-731		
Owner: Deryl Johnson Driller: Lightfoot and McCrum		
Soil	1	1
Sand	26	27
Sandy lime	4	31
Red bed	9	40
Water sand and gravel	30	70
Blue green clay	2	72
Sand and gravel	16	88
Sandy lime	2	90
Sand and gravel	6	96
Blue shale	6	102
Well DY-31-57-605		
Owner: Oscar White Driller: Windham and Michael		
Surface soil	10	10
Shale	4	14
Sandy shale	8	22
Dry sand	38	60
Water sand	20	80
Gravel	5	85
White shale	6	91
Gravel	12	103
Gray lime	2	105
Well DY-31-58-703		
Owner: T. E. Simonton Driller: T. E. Simonton		
Surface soil, sand	5	5
Shale	25	30
Sand	10	40
Shale	10	50
Sand	16	66
Gravel	2	68
Well DY-31-59-203		
Owner: Dean Pounds Driller: Carl A. Taylor		
Soil	15	15
Sand rock	10	25
Sand and sand rock ledges	13	38
Sand rock	17	55
Conglomerate	20	75
Well DY-31-59-204		
Owner: Dean Pounds Driller: Carl A. Taylor		
Soil	16	16
Sand rock	9	25
Crushed lime, soft	15	40
Sand rock	15	55
Conglomerate	20	75
Well DY-31-59-301		
Owner: Tom Johnson Driller: N. L. Box Drilling Contractor		
Sand	10	10
Water sand	2	12
Red bed	8	20
Blue shale	109	129
Sandy lime	14	143

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

Well DY-31-59-301—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Blue shale	24	167
Water sand	46	213
Blue shale	6	219

Well DY-31-59-303

Owner: L. E. Farley
Driller: Lightfoot and McCrum

Soil	2	2
Sand	6	8
Sand (water)	2	10
Sand	12	22
Blue clay	88	110
Blue shale	15	125
Lime	1	126
Blue shale	64	190

Well DY-31-59-305

Owner: Wendell Pounds
Driller: Carl A. Taylor

Soil	3	3
Sandy clay	22	25
Sand rock	20	45
Sand rock, hard	30	75
Sand rock, shells	10	85
Sand rock	5	90
Sand rock, soft	5	95
Shale	5	100

Well DY-31-59-306

Owner: Wendell Pounds
Driller: Carl A. Taylor

Soil	3	3
Sand rock	52	55
Hard sand rock	15	70
Soft sand rock	10	80
Hard sand rock	10	90
Soft sand rock	5	95
Shale	5	100

Well DY-31-59-307

Owner: Tom Johnson
Driller: Lightfoot and McCrum

Soil	2	2
Red and blue clay	13	15
Lime	2	17
Sand	2	19
Lime	1	20
Sand (water)	12	32
Blue and yellow clay	73	105
Blue shale	22	127
Gray sandy lime	25	152
Blue shale	17	169
Water sand (hard) water	28	197
Blue shale	8	205

Well DY-31-59-601

Owner: Herbert W. Buchanan
Driller: N. L. Box Drilling Contractor

Soil	4	4
Purple clay	40	44
Lime, trace of water	1	45
Blue clay	7	52
Lime	12	64
Water sand	23	87
Blue clay	8	95

Well DY-31-60-201

Owner: C. W. Crawford
Driller: N. L. Box Drilling Contractor

Sand and clay	21	21
Broken lime	4	25
Sand and clay	17	42
Lime	3	45
Sandy clay	5	50
Water gravel	5	55
Lime	3	58
Gravel	3	61
Red clay	2	63
Water gravel	7	70
Yellow clay	4	74

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

Well DY-31-60-202

Owner: C. W. Crawford
Driller: N. L. Box Drilling Contractor

	THICKNESS (FEET)	DEPTH (FEET)
Sand and clay	23	23
Lime	2	25
Sand and clay	10	35
Sand (little water)	17	52
Lime	6	58
Broken lime	3	61
Water gravel	9	70
Yellow clay	4	74

Well DY-31-60-203

Owner: L. M. Richman
Driller: L. M. Richman

Pack sand, soft sand, only small seep at 50 ft	50	50
Red clay	18	68
Sand with 1 gpm water	3	71
Hard rock, 2 ft red rock	4	75
Sand and gravel (6 gpm)	5	80
Hard rock	1	81
Coarse sand, more water	5	86
Hard rock	1	87
Sand and gravel	7.5	94.5
Rock	1	95.5
Sand and gravel	7	102.5
Rock	1.5	104
Yellow clay, brown clay to blue clay	11	115

Well DY-31-60-204

Owner: L. M. Richman
Driller: L. M. Richman

Soft sand rock	41	41
Hard rock	5	46
Gray clay	2	48
Fine white sand	6	54
White sand, 2 in. rock	1	55
Rock	4	59
Brown sand and fine gravel	1	60
No record	5	65

Well DY-31-60-204—Continued

Clean sand and fine black gravel	13	78
Rock	1	79
Coarse sand and some large gravel	2.5	81.5
Yellow clay	2.5	84
Gray clay	1	85

Well DY-31-60-206

Owner: Bill Dendy
Driller: N. L. Box Drilling Contractor

Clay and sand and gravel	30	30
Dry gravel	15	45
Water sand and gravel	17	62
Lime	2	64
Red bed	7	71

Well DY-31-60-213

Owner: Bill Wilkerson
Driller: N. L. Box Drilling Contractor

Clay	6	6
Sand and clay	16	22
Lime	1	23
Water sand	12	35
Lime	2	37
Broken lime and sand	25	62
Red bed	10	72
Water gravel	19	91
Yellow clay	7	98

Well DY-31-60-214

Owner: N. L. Box
Driller: N. L. Box Drilling Contractor

Clay	12	12
Sand	14	26
Broken lime	3	29
Red bed	13	42
Sand and sandstone (water)	7	49
Sand	6	55
Sand and gravel	12	67
Sandy clay	3	70
Lime	1	71

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-60-214—Continued		
Sand and small gravel	16	87
Purple clay	13	100
Well DY-31-60-215		
Owner: N. L. Box Driller: N. L. Box Drilling Contractor		
Soil	1	1
Clay	4	5
Broken lime	9	14
Sand and clay	6	20
Sand (water)	11	31
Red bed	13	44
Sand	21	65
Gravel	29	94
Blue shale	6	100
Well DY-31-60-218		
Owner: N. L. Box Driller: Texas Water Development Board		
Sand - fine to medium grain, silty, clayey, brown and yellow	3	3
Sand - fine to coarse grain, pebbly, brown and red	3	6
Sand - see sand (6 ft) red	2	8
Conglomerate - pebble size, sandy, well to poorly cemented, multi-colored, white, pink, black, mineral composition - quartz varieties (rose and smokey quartz, and chert)	7	15
Sandstone - fine grain, poorly cemented, yellow	1	16
Conglomerate - see conglomerate (15 ft)	2	18
Sand - fine to medium grain, clayey gray and yellow	14	32
Sandstone - fine to medium grain, calcareous cement, well cemented, gray	1	33
Clay - sandy, silty, red and gray	4	37
Sandstone - fine grain, gray	2	39
Clay - sandy, silty, red and gray	3	42
Sandstone - see sandstone (39 ft)	.5	42.5
Clay - sandy, silty, red, gray and yellow	3.5	46
Sand - fine to medium grain, thin clay lenses present, loose to consolidated, gray	9	55
Sand - fine to coarse grain, thin sandstone lenses present, loose to consolidated, poor sorting, gray	9	64
Clay - silty, green	2	66
Sand - see sand (64 ft)	5	71
Sandstone - fine to very coarse grain, pebbly, poor sorting, gray	3	74
Sand - fine to very coarse grain, pebbly, poor sorting, gray	2	76
Conglomerate - see conglomerate (15 ft)	.5	76.5
Clay - sandy, silty, gray to green	1.5	78
Sandstone - fine to coarse grain pebbly well cemented, poor sorting, gray	1	79
Clay - silty, green	.33	79.33
Sandstone - fine to medium grain, well cemented, gray	.17	79.5
Siltstone - sandy, clayey, gray	.5	80
Conglomerate - see conglomerate (15 ft)	2	82
Siltstone - clayey, green and white	1	83
Conglomerate - pebble size, sandy, poorly cemented, mineral composition, see conglomerate (15 ft)	3	86
Sand - fine to very coarse grain, gray	2	88
Conglomerate - pebble size, sandy, clayey, poor sorting, well to poorly cemented, green and gray	2	90
Sand - fine to medium grain, yellow to gray	3	93
Conglomerate - see conglomerate (90 ft)	2	95
Sand - see sand (93 ft)	1.5	96.5
Sandstone - fine grain, well sorted, blue to gray	.5	97
Clay - blue	4	101

Table 3.--Drillers' Logs of Selected Wells in Comanche County--Continued

Well DY-31-60-303

Owner: Fred Cuze
Driller: N. L. Box Drilling Contractor

	THICKNESS (FEET)	DEPTH (FEET)
Sand and clay	17	17
Shells and sand, little water	8	25
Red clay	16	41
Dry sand	5	46
Tight sand, white	3	49
Broken lime	9	58
Red and blue clay	6	64
Yellow clay	17	81
Red bed	8	89
Hard lime	10	99
Blue shale and shells	11	110

Well DY-31-60-305

Owner: City of DeLeon
Driller: Unknown

Sand and gravel	2	2
Clay and gravel	10	12
Packed sand and clay	14	26
White sand rock	3	29
Packed sand	20	49
Sand rock	3	52
Red bed, clay, and shale	12	64
Packed sand	8	72
Concrete rock	5	77
Sand and gravel	4	81
Blue shale	19	100
Blue sand rock	4	104
Blue shale	30	134
Blue sand and rock	12	146
Sandy shale and blue rock	32	178

Well DY-31-60-325

Owner: J. J. Mathis
Driller: Ardean Kimmell Irrigation Service

Surface	5	5
Sand	10	15
Brown shale	17	32
Conglomerate	14	46
Sand	12	58

Well DY-31-60-325--Continued

Gravel	16	74
Yellow clay	4	78
Gravel	7	85
Yellow clay	9	94

Well DY-31-60-326

Owner: J. J. Mathis
Driller: Ardean Kimmell Irrigation Service

Surface	4	4
Sand	7	11
Brown shale	14	25
Sand	38	63
Gravel	14	77
Brown shale	10	87

Well DY-31-60-327

Owner: J. J. Mathis
Driller: Ardean Kimmell Irrigation Service

Surface	4	4
Brown shale	20	24
Sand	31	55
Gravel	20	75
Brown shale	11	86

Well DY-31-60-328

Owner: J. J. Mathis
Driller: Ardean Kimmell Irrigation Service

Surface	4	4
Yellow clay	8	12
Sand	23	35
Gravel	29	64
Sand and gravel	6	70
Brown shale	10	80

Well DY-31-60-401

Owner: O. G. Gilchrist
Driller: N. L. Box Drilling Contractor

Sand and clay	9	9
Sand (little water at 20 ft)	11	20
Sand and limestone	6	26
Red clay	16	42
Blue clay	2	44
Yellow clay	11	55

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

Well DY-31-60-501

Owner: Billy Gray
Driller: N. L. Box Drilling Contractor

	THICKNESS (FEET)	DEPTH (FEET)
Soil	4	4
Sand and clay	15	19
Sand and gravel	7	26
Lime and gravel	31	57
Clay	3	60
Sand and gravel	19	79
Blue shale	6	85

Well DY-31-60-601

Owner: Elmon Kerby
Driller: Ardean Kimmell Irrigation Service

Surface	6	6
Red - brown shale	18	24
Soft sand	6	30
Conglomerate	6	36
Sand	14	50
Gravel	24	74
Brown shale	19	93
Yellow clay	30	123
Blue shale	1	124

Well DY-31-60-602

Owner: Elmon Kerby
Driller: Ardean Kimmell Irrigation Service

Surface	5	5
Gravel	7	12
Brown shale	13	25
Sand	8	33
Brown shale	9	42
Sand	8	50
Sand and gravel	14	64
Yellow clay	4	68
Brown shale	7	75

Well DY-31-60-603

Owner: Elmon Kerby
Driller: Ardean Kimmell Irrigation Service

Surface	5	5
Brown shale	30	35
Sand	10	45

Well DY-31-60-603—Continued

Sand and gravel	10	55
Gravel	13	68
Brown shale	10	78

Well DY-31-60-604

Owner: Fred Williams
Driller: Edwin Davis and Iredell Drilling

Red bed - red shale	20	20
Sand, very fine with streaks of sandy shale	20	40
Sand, very fine with increased sandy shale	5	45
Sand, very fine - some shale	5	50
Sand and small gravel	5	55
Sand and small gravel	5	60
Sand and red shale	5	65
Sand	5	70
Sandy shale	5	75
Sand - sandy shale - some gravel	5	80
Sand and gravel	5	85
Sand and increase gravel	5	90
Gravel - pick up first blue shale	5	95
Blue - red brown shale	5	100
Red - brown shale	20	120

Well DY-31-60-605

Owner: Tommy Taylor
Driller: Smith and Wolf Drilling Co.

Topsoil	3	3
Gray clay	7	10
Sandy shale	12	22
Sand	19	41
Rock	2	43
Water sand	30	73
Clay	7	80

Well DY-31-60-606

Owner: Tommy Taylor
Driller: Smith and Wolf Drilling Co.

Surface	6	6
Gray clay	6	12

Table 3.--Drillers' Logs of Selected Wells in Comanche County--Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-60-606--Continued		
Rock	2	14
Blue clay	3	17
Rock	3	20
Red bed	11	31
Sandy shale	27	58
Water sand	24	82
Gray clay	8	90
Well DY-31-60-607		
Owner: Tommy Taylor Driller: Smith and Wolf Drilling Co.		
Red clay	8	8
Brown sandy clay	17	25
Rock	9	34
Red clay	21	55
Water sand	8	63
Brown clay	7	70
Layer of rock	17	87
Yellow clay	11	98
Well DY-31-60-608		
Owner: Tommy Taylor Driller: Smith and Wolf Drilling Co.		
Red sandy clay	9	9
Rock	10	19
Gray sandy clay	12	31
Gray sand	17	48
Rock	5	53
Clay	9	62
Rock	12	74
Clay	6	80
Yellow clay	5	85
Well DY-31-60-801		
Owner: Gayle McGinnis Driller: N. L. Box Drilling Contractor		
Sand and clay	18	18
Gravel	7	25
White clay	2	27
Gravel	7	34
Yellow clay	4	38
Well DY-31-60-805		
Owner: Gayle McGinnis Driller: N. L. Box Drilling Contractor		
No record	13	13
Coarse gravel	16	29
Fine water sand	9	38
Blue clay	1	39
Well DY-31-61-103		
Owner: Robert Hodges Driller: N. L. Box Drilling Contractor		
Sand and clay	28	28
Dry gravel	8	36
Clay	6	42
Lime	1	43
Clay	5	48
Water sand	5	53
Sand and white clay	17	70
Water sand	6	76
Tight coarse sand	6	82
Tight gravel and sand	11	93
Broken lime	5	98
Broken lime and clay	15	113
Purple clay	3	116
Well DY-31-61-104		
Owner: Robert Hodges Driller: N. L. Box Drilling Contractor		
Soil	2	2
Red clay	4	6
Brown clay	9	15
Sand and clay	34	49
Red bed	8	57
Sand	10	67
Coarse sand	12	79
Clay	7	86
Well DY-31-61-105		
Owner: Robert Hodges Driller: N. L. Box Drilling Contractor		
Soil	2	2
Clay	8	10

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-61-105—Continued		
Sand and gravel, little water	18	28
Sand and white clay	20	48
Gravel	17	65
Sand and gravel	13	78
Yellow clay	12	90
Sandstone	3	93
Mixed clay	90	183
Sandy shale	2	185
Blue shale	2	187
Well DY-31-61-106		
Owner: Robert Hodges Driller: N. L. Box Drilling Contractor		
Soil	2	2
Red clay	11	13
Gravel	2	15
White clay	8	23
Sand and clay	21	44
Water sand	11	55
Sand and clay	7	62
Sand	6	68
Sand and clay	7	75
Coarse sand	11	86
Yellow clay	6	92
Well DY-31-61-107		
Owner: Robert Hodges Driller: N. L. Box Drilling Contractor		
Sand and clay	8	8
Dry gravel	7	15
Clay	2	17
Sand, little water	3	20
Gravel	17	37
Sand and gravel	13	50
Sand	6	56
Sand and gravel	5	61
Sand	4	65
Tight sand	8	73
Gravel	17	90
Clay	5	95

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-61-108		
Owner: Robert Hodges Driller: N. L. Box Drilling Contractor		
Sand and clay (little water at 20 ft)	20	20
Sand - increase in water at 30 ft	32	52
Gravel and sand - water	23	75
Yellow and blue clay	8	83
Well DY-31-61-109		
Owner: Robert Hodges Driller: N. L. Box Drilling Contractor		
Soil and clay	8	8
Sandy clay	7	15
Dry sand	11	26
Hard sand	4	30
Sandy clay and gravel	7	37
Hard sand	3	40
Water sand and gravel	47	87
Blue shale	10	97
Well DY-31-61-110		
Owner: Robert Hodges Driller: N. L. Box Drilling Contractor		
Soil	2	2
Clay	6	8
Sand and clay	12	20
Sand and gravel	15	35
Sand and gravel - water	15	50
Hard sand	10	60
Sand and gravel	32	92
Blue shale	8	100
Well DY-31-61-111		
Owner: Robert Hodges Driller: N. L. Box Drilling Contractor		
Soil and clay	10	10
Sandy clay	15	25
Dry sand and gravel	20	45
Sand water	10	55
Gravel and sand	43	98
Blue shale	7	105

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

Well DY-31-61-112

Owner: Bill Wood
Driller: Lightfoot and McCrum

	THICKNESS (FEET)	DEPTH (FEET)
Red and blue clay	12	12
Sandy clay	6	18
Sand	7	25
Sandy clay	5	30
Sand	13	43
Water sand and gravel	14	57
Blue and yellow shale	8	65

Well DY-31-61-113

Owner: Bill Wood
Driller: Lightfoot and McCrum

Red clay	4	4
Gravel	4	8
Red clay	4	12
Red and blue sandy clay	15	27
Lime	1	28
Red and blue sandy clay	12	40
Sand and gravel	17	57
Blue and yellow shale	9	66

Well DY-31-61-114

Owner: Bill Wood
Driller: Lightfoot and McCrum

Red clay	12	12
Red sandy clay	15	27
Sand and clay	10	37
Lime	1	38
Water sand and gravel	16	54
Yellow and blue shale	9	63

Well DY-31-61-115

Owner: Bill Wood
Driller: Lightfoot and McCrum

Red clay	10	10
Red and blue sandy clay	15	25
White sandy clay	15	40
Sand	5	45
Sand and marl (water)	10	55
Yellow clay	12	67

Well DY-31-61-116

Owner: Bill Wood
Driller: Lightfoot and McCrum

Red clay	6	6
Red and blue sandy clay	14	20
White sand and clay	23	43
Water sand and gravel	12	55
Yellow clay	14	69

Well DY-31-61-117

Owner: Bill Wood
Driller: Lightfoot and McCrum

Red clay	5	5
Red and blue sandy clay	13	18
Sand	13	31
Sand (water)	5	36
Sand and gravel (water)	14	50
Yellow clay	11	61

Well DY-31-61-119

Owner: Bill Wood
Driller: Comco Drilling Co.

Limestone	2	2
Sand and clay stringers	23	25
Sand	10	35
Gravel and sand	11	46
Yellow shale	14	60

Well DY-31-61-120

Owner: P. R. George
Driller: N. L. Box Drilling Contractor

Soil and clay	10	10
Sand and clay (little water)	40	50
Hard sand	10	60
Sand and gravel	34	94
Blue shale	6	100

Well DY-31-61-201

Owner: George Caraway
Driller: N. L. Box Drilling Contractor

Clay and sand	22	22
Dry sand and gravel	21	43
Water sand and gravel	6	49

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-61-201—Continued		
White clay	2	51
Water gravel	6	57
Clay	4	61
Well DY-31-61-405		
Owner: Humble Pipeline Co. Driller: N. L. Box Drilling Contractor		
Surface soil	1	1
Red clay	1	2
Gravel	4	6
Sandy clay	10	16
Hard, sandy lime	2	18
Clay	8	26
Sand, small amount water 36 to 41 ft (2 gpm)	10	36
Broken lime	5	41
Red clay	5	46
Sand and clay	12	58
Fine grained white sand	6	64
Coarse sand	17	81
Gravel - water	22	103
Yellow clay	6	109
Well DY-31-61-705		
Owner: Henry Van Terrell Driller: Lightfoot and McCrum		
Sandy clay	2	2
Red clay	8	10
Sand and sandy clay	35	45
Sandy lime	5	50
Sand	5	55
Lime	2	57
Sand	11	68
Water sand	12	80
Gravel	20	100
Blue and yellow clay	10	110
Well DY-31-61-706		
Owner: John H. Foley Driller: Petit and Kight Driller Co.		
Sand rock	15	15
Clay	5	20
Sand and gravel	8	28
Yellow clay	11	39
Fine sand	6	45
Shale and rock	6	51
Sand streaks	21	72
Clay streaks	24	96
Rock	2	98
Yellow sand	4	102
Sand streaks	14	116
Rock	2	118
Coarse sand	17	135
Yellow clay and shale	5	140
Well DY-31-61-801		
Owner: E. G. McKinnon Driller: N. L. Box Drilling Contractor		
Sand and clay	23	23
Lime and sand	9	32
Sand and clay	11	43
White sand	17	60
Sand, limy clay	23	83
Red clay	10	93
Sand and clay	11	104
Gravel	4	108
Yellow clay	2	110
Gravel	5	115
Sandy lime	1	116
Gravel	9	125
Yellow clay	2	127
Well DY-31-61-902		
Owner: Lee Campbell Driller: J. T. Brown Water Well Driller		
Brown soil	3	3
White clay	5	8
Yellow clay	24	32
White sand	8	40
Yellow sand	20	60
Red and green clay	8	68
Gray clay	7	75

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-61-902—Continued		
Red clay	2	77
Green clay	13	90
White sand	20	110
White sand and gravel	35	145
Yellow sand and clay clods	15	160
White sand and gravel	15	175
Red and green clay	5	180
Well DY-41-02-901		
Owner: D. C. Fry Driller: Harris Drilling Co.		
Soil	3	3
Blue shale	61	64
Dry sand and sandy shale	17	81
Water sand	21	102
Sand rock	3	105
Water sand	3	108
Blue shale	3	111
Well DY-41-03-201		
Owner: B. E. Hanson Driller: Comco Drilling Co.		
Sand and sandy clay	35	35
Sand and gravel (water)	15	50
Shale	20	70
Sand (water)	20	90
Shale	11	101
Well DY-41-03-601		
Owner: L. L. Hart Driller: Watt Foster		
Soil	5	5
Light shale	20	25
Red shale	30	55
Sand	9	64
Red shale	8	72
Sand, small amount water	1	73
Red shale	7	80
Gravel, water	13	93
Lime	1	94
Well DY-41-03-601—Continued		
Sand, water	31	125
Brown shale	25	150
Brown shale	40	190
Shale	8	198
Lime	4	202
Blue shale	63	265
Lime	2	267
Blue shale	13	280
Blue shale with sand	120	400
Shale and sand, dry	32	432
Shale and sand, dry	32	464
Well DY-41-03-903		
Owner: W. C. Chilton Driller: Hoff Irrigation Co.		
Surface soil	5	5
Caliche	17	22
Red rock	6	28
Red rock with sand	7	35
Sandy shale	10	45
Sand with water	48	93
Shale and brown, yellow lime	10	103
Sandy shale	10	113
Well DY-41-04-501		
Owner: Elton McDonald Driller: Hoff Irrigation Co.		
Soil, red bed, caliche	17	17
Sand rock	7	24
Shale	4	28
Sand rock	11	39
Sandy shale	6	45
Colored gravel	5	50
Water	10	60
Shale	4	64
Well DY-41-04-502		
Owner: Elton McDonald Driller: Jack Leonard Drilling Co.		
Sand	22	22
Lime	2	24

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-04-502—Continued		
Yellow clay	4	28
Lime	3	31
Sand with shale streaks	29	60
Sand with small gravel (water)	11	71
Sand with shale streaks	25	96
Lime	1	97
Water sand	5	102
Water gravel	8	110
Yellow clay	6	116
Well DY-41-04-504		
Owner: Lloyd Biggs Driller: Pickett Drilling Co.		
Top, sand	3	3
Sandy clay	17	20
Clay	10	30
Sand	10	40
Red shale	2	42
Sand rock	4	46
Red clay	14	60
Sand and small gravel, water	18	78
Sand rock	2	80
Gravel	7	87
Yellow clay	5	92
Red rock	2	94
Gravel, water	26	120
Clay	6	126
Well DY-41-04-505		
Owner: R. H. Skurlock Driller: Harris Drilling Co.		
White, sandy shale	18	18
Brown water sand	4	22
Rock	1	23
Water sand	2	25
Rock	1	26
Red sandy shale and red bed	13	39
Water sand	5	44
White sandy shale	13	57
White water sand	5	62
Yellow sandrock	12	74
Yellow sandy shale	16	90
White sandy shale	6	96
Sand and gravel	12	108
Yellow shale	6	114
Well DY-41-04-506		
Owner: R. H. Skurlock Driller: Harris Drilling Co.		
White sandy shale	18	18
Brown water sand	7	25
Rock	2	27
Red sandy shale and red bed	13	40
Water sand	5	45
White sandy shale	15	60
White water sand	5	65
Yellow sand rock	10	75
Yellow sandy shale	15	90
White sandy shale	6	96
Sand and gravel	12	108
Yellow shale	5	113
Well DY-41-04-601		
Owner: Rhea T. Hoff Driller: Hoff Irrigation Co.		
Soil	1	1
Red clay	3	4
White clay	15	19
Red clay and some sand	14	33
Sand rock	8	41
Gravel	2	43
Gray sandy shale	9	52
Yellow lime	1	53
Dry sand rock	4	57
Red bed	13	70
Sand	9	79
Gravel	1	80

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-04-601—Continued		
Red bed	1	81
Gray sandy shale	5	86
Lime	5	91
Sand	7	98
Gravel	2	100
Sandy lime	5	105
Broken lime, sandy shale, and red bed	5	110
Gravel	10	120
Hard sandy lime	5	125
Well DY-41-04-602		
Owner: Rhea T. Hoff Driller: Hoff Irrigation Co.		
No record	30	30
Shale - sand	15	45
Red bed - red rock	15	60
Gray shale - lime shale and sand rock	11.5	71.5
Gray shale - sandrock	10.5	82
Red rock	2	84
Light shale	6	90
Sand - gravel	30	120
Yellow and purple gumbo	10	130
Well DY-41-04-603		
Owner: Rhea T. Hoff Driller: Hoff Irrigation Co.		
Soil	2	2
Clay and shale	8	10
Sand	8	18
Shale	16	34
Lime	4	38
Shale	4	42
Sand	4	46
Shale with coal and gravel	2	48
Sand	5	53
Red bed	17	70
Gray shale	7	77
Sand and lime	23	100
Red bed	1	101
Light shale	1	102
Sand to coarse gravel	18	120
Light shale	3	123
Yellow clay	7	130
Well DY-41-04-604		
Owner: Rhea T. Hoff Driller: Hoff Irrigation Co.		
Surface and red bed	25	25
Lime shells	9	34
Shale	6	40
Sand	13	53
Yellow shale	1	54
Sand and gravel	28	82
Green shale	4	86
Well DY-41-04-701		
Owner: Comanche Public School Driller: Hoff Irrigation Co.		
Surface	3	3
Gravel	7	10
Red clay	10	20
Gray shale	12	32
Water sand	20	52
Red bed	6	58
Sandy shale	19	77
Sand	5	82
Sandy shale	3	85
Lime	2	87
Shale	1	88
Well DY-41-05-105		
Owner: U.S. Army Corps of Engineers Driller: J. L. Myers Sons		
Surface soil	8	8
Clay	12	20
Sand	2	22
Sand rock	24	46
Shale	12	58
Gravel	5	63
Lime	3	66

Table 3.—Drillers' Logs of Selected Wells in Comanche County--Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-05-105--Continued		
Clay	4	70
Sand	12	82
Shale	93	175
Well DY-41-05-204		
Owner: Joe Dorsey Driller: N. L. Box Drilling Contractor		
Sand and clay	13	13
Broken lime and gravel	8	21
Water sand and gravel	8	29
Red bed	8	37
Sandstone and lime	9	46
Sand and clay	9	55
Limy sand and gravel	26	81
Yellow clay	16	97
Well DY-41-05-210		
Owner: Mary Kay Hamlett Driller: Lightfoot and McCrum		
Sand	2	2
Sandy clay (red)	17	19
Sand (white) (water)	21	40
Red clay	5	45
Sand (water)	5	50
Blue and yellow clay (sand)	10	60
Red clay	2	62
Sand (water)	23	85
Sand and gravel (water)	29	114
Yellow and blue clay	11	125
Well DY-41-05-211		
Owner: Mary Kay Hamlett Driller: Lightfoot and McCrum		
Sand	1	1
Red clay	14	15
Sand	15	30
Sand (water)	8	38
Red clay	8	46
Blue clay (sand)	9	55
Sand (water)	10	65
Blue clay	10	75

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-05-211—Continued		
Sand (water)	10	85
Gravel (water)	10	95
Sand and clay	6	101
Gravel (water)	14	115
Yellow and blue clay	11	126
Well DY-41-05-214		
Owner: Joe Dorsey Driller: Holdridge Drilling Co.		
Sand	2	2
Brown clay	14	16
Lime, gravel, and sand	9	25
Sandstone and lime	3	28
Sand and gravel	8	36
Gravel and shale	4	40
Red clay	20	60
Sand	8	68
Sand rock	2	70
Sand	20	90
Sand rock and gravel	4	94
Brown and blue clay	11	105
Well DY-41-05-502		
Owner: R. W. Evans Driller: Curtis Alford Drilling and Well Service		
Soil	4	4
Sand and caliche	11	15
Sand	9	24
Sand rock	2	26
Sand	14	40
Sand rock	11	51
Water sand	36	87
Lime shell	3	90
Water sand and gravel	32	122
Blue shale	18	140
Well DY-41-06-601		
Owner: W. A. Springer Driller: J. T. Brown Water Well Driller		
Topsoil	1	1
White clay and shale rock	6	7

Table 3.--Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-06-601—Continued		
Yellow clay and flat rock	11	18
Blue clay and flat rock	37	55
Gray clay	90	145
Red and green clay	25	170
White sand	42	212
Green clay	1	213
Well DY-41-06-901		
Owner: Sherman Henson Driller: Tatum Drilling Co.		
Caliche	23	23
Blue shale	37	60
Gray sandy shale	8	68
Crystalized sandstone	2	70
Green sandy clay	10	80
Red water sand	8	88
Green sandy clay	6	94
Red bed	11	105
Blue clay	17	122
Water sand	13	135
Crystalized sandstone	1	136
Water sand	10	146
Blue shale	4	150
Well DY-41-07-701		
Owner: Travis Lincecum Driller: Alford James Price		
Topsoil	5	5
Red clay	2	7
Caliche	3	10
Rock	3	13
Dry sand	4	17
Yellow clay	2	19
Dry yellow clay	2	21
Yellow clay	6	27
Sand	11	38
Blue sandy shale	4	42
Blue sand (little water)	2	44
Coal, black	11	55
Sandy blue shale	11	66

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-07-701--Continued		
Dry sand	7	73
Sand	7	80
Broken rock and sand	20	100
Soapstone	3	103
Sandy shale	5	108
Soapstone	2	110
Dry sand	4	114
Shale	4	118
Well DY-41-11-301		
Owner: E. E. Bryson Driller: Sun Oil Co.		
Yellow clay	10	10
Gray shale	30	40
Broken lime	25	65
Blue shale	10	75
Broken lime	5	80
Blue shale	20	100
Sand (4 bwph)	45	145
Shale	5	150
Sand (20 bwph)	10	160
Pink shale	10	170
Sandy shale	35	205
Sand	20	225
Red rock	10	235
Water sand	20	255
Sandy shale	70	325
Gray shale	75	400
Broken lime	10	410
Light shale	15	425
Broken lime	5	430
Lime	10	440
Blue shale	45	485
Gritty lime	20	505
Gritty shale	155	660
Blue shale	155	815
Lime	5	820
Blue shale	25	845
Sand	5	850

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-11-301—Continued		
Shale	85	935
Sand	55	990
Blue shale	15	1,005
Broken lime	15	1,020
Sandy shale	20	1,040
Sand	10	1,050
Sandy shale	25	1,075
Dark shale	45	1,120
Sandy shale	10	1,130
Sandy lime	30	1,160
Sandy shale	15	1,175
Sandy lime	20	1,195
Sand (1 bwph)	65	1,260
Sandy shale	30	1,290
Dark shale	10	1,300
Sandy shale	5	1,305
Lime	100	1,405
Sand	10	1,415
Broken lime	15	1,430
Sand	15	1,445
Dark shale	25	1,470
Sand	25	1,495
Sandy shale	15	1,510
Sand	15	1,525
Sandy lime	35	1,560
Sand	45	1,605
Blue shale	5	1,610
Sandy lime	20	1,630
Sandy shale	45	1,675
Sand	10	1,685
Dark shale	30	1,715
Sandy shale	75	1,790
Dark shale	450	2,240
Black shale	45	2,285
Dark shale	70	2,355
Soft dark shale	5	2,360
Black lime	34	2,394
Black shale	8	2,402
Well DY-41-11-301—Continued		
Black lime	48	2,450
Lime	45	2,495
Black lime	135	2,630
White lime	250	2,880
Sand	25	2,905
Brown lime	20	2,925
White sand	15	2,940
White lime	20	2,960
White sand	15	2,975
White lime	25	3,000
White sand, water	15	3,015
White lime	5	3,020
Dark sand	5	3,025
Sand (water)	15	3,040
White sand	5	3,045
White sand	5	3,050
Lime	5	3,055
White lime	5	3,060
White sand	28	3,088
Lime	2	3,090
Sand, water	45	3,135
Well DY-41-12-101		
Owner: City of Comanche Driller: George Bolton		
Soil	8	8
Sand and gravel	12	20
Blue clay	70	90
Coal and fine sand	7	97
Blue clay	26	123
Well DY-41-13-301		
Owner: Gustine Water Supply Corp. Driller: Andrews and Foster		
Rock	12	12
Sand	6	18
Shale	20	38
Rock	2	40
Shale and rock	10	50
Shale	8	58

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-13-301—Continued		
Sand	12	70
Rock	6	76
Shale and sand breaks	4	80
Red bed	53	133
White shale	3	136
Shale	4	140
Sand	8	148
Rock	2	150
Shale	2	152
Sand and gravel	8	160
Rock and shale breaks	20	180
Shale and rock	25	205
Rock	50	255
Well DY-41-14-106		
Owner: U. L. Kingsbury Driller: Petit and Kight Drilling Co.		
No record	20	20
Sand	17	37
Blue shale	59	96
Red clay and rock	16	112
Coarse sand	8	120
Lime rock	7	127
Gray clay	21	148
Rock	7	155
Shale and gravel streaks	11	166
Gravel	14	180
Blue shale	2	182
Well DY-41-14-107		
Owner: U. L. Kingsbury Driller: Petit and Kight Drilling Co.		
No record	16	16
Sand and sand rock	17	33
Blue clay and shale	17	50
Hard sand streaks	12	62
Blue clay	6	68
Red clay	21	89
Blue clay	3	92
Shale and lime rock	7	99
Red rock and clay	44	143
Rock	7	150
Sand and gravel streaks	10	160
Sand and gravel	20	180
Blue shale	3	183
Well DY-41-14-108		
Owner: Brent Daniel Driller: Iredell Drilling		
Surface sand	15	15
Sand and rock shelf	15	30
Hard sand and shale	55	85
Red clay	45	130
Sandy shale	2	132
Sand and gravel and rock layers	34	166
Green shale	14	180
Well DY-41-14-302		
Owner: Glen McGlothlin Driller: Roy Michael		
Surface soil	9	9
Sandy red clay	3	12
Sand and gravel - weak water	6	18
White caliche - shale breaks	7	25
Red clay	5	30
White shale	5	35
Blue shale - light color	7	42
Water sand - weak	3	45
Hard sandstone	5	50
Water sand	10	60
Blue sandy shale	2	62
Red clay	23	85
Blue shale	5	90
Red clay	12	102
Blue shale	2	104
Water sand - good water	3	107
Blue shale	5	112
Water sand	1	113

Table 3.--Drillers' Logs of Selected Wells in Comanche County--Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-14-302--Continued		
Hard limerock	4	117
Blue-green shale	8	125
Hard limerock	8	133
Blue shale	7	140
Sand and gravel - good sand	23	163
Hard limerock	2	165
Hard sand	5	170
Blue sandy shale	27	197
Black shale	9	206
Blue sandy shale	9	215
Black shale	5	220
Blue sandy shale	10	230
Black shale	5	235
Blue sandy shale	15	250
Black shale	30	280
Hard sandy shale	4	284
Black shale	22	306
Light blue shale	32	338
Hard gray sand - 1 barrel salt water (rainbowed)	152	490
Black shale	60	550
Light sandy shale	15	565
Black shale	43	608
Sandy blue shale	127	735
Gray sand - light gas show	28	763
Black shale	9	772
White sand (6 barrels salt water)	9	781
Sandy shale	9	790
Black shale (real black)	8	798
Light blue shale	32	830
White sand (dry)	18	848
Hard gray sand	8	856
Black shale - coal black	15	871
Hard sand with layers blue shale	29	900

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-14-303		
Owner: Euel Eddleman Driller: Curtis Alford Drilling and Well Service		
Soil	2	2
Red clay	3	5
Brown and yellow shale	16	21
Sand	7	28
Gravel	4	32
Hard lime rock	2	34
Gravel and sand	30	64
Hard lime	1	65
Gravel and sand	10	75
Blue shale	5	80
Hard lime	5	85
Blue sand	10	95
Hard red sand	10	105
Hard red sand rock	19	124
Water sand	14	138
Lime rock	3	141
Red bed	9	150
Well DY-41-14-304		
Owner: Roscoe White Driller: Tatum Drilling Co.		
Caliche and limestone	18	18
Blue shale	47	65
Water sand	13	78
Sandy shale	7	85
Water sand	22	107
Blue shale	5	112
Well DY-41-14-305		
Owner: J. N. Thompson Driller: Tatum Drilling Co.		
No record	72	72
Sand and gravel	10	82
Sandy clay and sandstone	8	90
Sandy clay	16	106
Limestone	4	110
Red and blue clay	23	133
Water sand	10	143

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-14-305—Continued		
Crystal sandstone - hard	3	146
Red and blue clay	14	160
Coarse water sand	8	168
Limestone	2	170
Sand and gravel	8	178
Limestone	6	184
Green sandy clay	4	188
Well DY-41-14-402		
Owner: Russell Hayes Driller: Iredell Drilling		
Topsoil and clay	15	15
Sand and rock shelf	15	30
Hard sand rock	55	85
Red clay	45	130
Sandy shale	2	132
Sand and gravel with rock breaks	35	167
Green shale	18	185
Well DY-41-14-701		
Owner: Gayle Isham, Jr. Driller: Tatum Drilling Co.		
Topsoil and pack sand	10	10
Yellow caliche	8	18
Brown sand	12	30
Yellow sand	14	44
Gray shale	119	163
Sandy shale	6	169
Gray shale	24	193
Sandy shale	28	221
Water sand	13	234
Soapstone	8	242
Hard rock	3	245
Sandy shale	27	272
Red bed	11	283
Sand and water sand	42	325
Soapstone	10	335

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-14-803		
Owner: Elsie M. Rea Driller: L. W. Little Drilling Co.		
Surface	2	2
Hard white limestone	88	90
Green shale	8	98
Hard white limestone	38	136
Fine dark sand	10	146
Black shale	2	148
Blue green shale	20	168
White sand	9	177
Hard blue limestone	13	190
Red shale	22	212
Sand	18	230
Hard white flint rock	8	238
Red shale, hard	17	255
Well DY-41-15-101		
Owner: H. C. Aytes Driller: Leon Drilling Co.		
Soil	4	4
Caliche - gravel	16	20
Sandy shale	30	50
Water sand	20	70
Hard sand	5	75
Sand - gravel - water	15	90
Hard sand	10	100
Sand - gravel - water	25	125
Sand - lime - hard	5	130
Lime shells - red shale	18	148
Water sand	24	172
Lime - sandy	4	176
Well DY-41-15-401		
Owner: F. L. Stephens Driller: Tatum Drilling Co.		
Sandy red clay	30	30
Crystal limestone	2	32
Water sand	13	45
Sandy clay	8	53
Water sand (12 gpm)	34	87

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-15-401—Continued		
Red and blue clay	68	155
Fine sand	8	163
Red bed	24	187
Sand and gravel	9	196
Red and blue clay	6	202
Yellow rock	3	205

COMANCHE COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

Well DY-31-51-309

Owner: Robert C. Atchison

DATE	WATER LEVEL
July 10, 1968	72.3
Mar. 24, 1969	71.70

Well DY-31-51-606

Owner: R. A. Barnett

DATE	WATER LEVEL
Mar. 23, 1966	26.28
Mar. 22, 1968	26.98
July 22, 1968	25.75
Mar. 24, 1969	25.98

Well DY-31-51-901

Owner: Elvin Walker

DATE	WATER LEVEL
Aug. 11, 1965	1.05
Mar. 23, 1966	+ .50
Mar. 23, 1967	+ .95
Mar. 26, 1969	+ .98

Well DY-31-52-503

Owner: N. L. Box

DATE	WATER LEVEL
Oct. 10, 1965	14.30
Mar. 23, 1966	15.50
Sept 1, 1966	15.39
Sept. 27, 1966	15.41
Nov. 2, 1966	16.07
Nov. 29, 1966	15.70
Jan. 4, 1967	16.32
Mar. 21, 1967	16.42
May 3, 1967	16.33
June 7, 1967	16.18
Aug. 2, 1967	16.38
Sept. 11, 1967	16.62
Oct. 3, 1967	16.64
Nov. 7, 1967	16.83
Dec. 4, 1967	16.78

Well DY-31-52-503—Continued

DATE	WATER LEVEL
Jan. 3, 1968	16.63
Feb. 5, 1968	16.14
Mar. 24, 1969	15.80

Well DY-31-52-605

Owner: B. E. Hanson

DATE	WATER LEVEL
July 16, 1965	57.57
Apr. 19, 1966	28.81
Mar. 21, 1967	29.87
Mar. 24, 1969	37.63

Well DY-31-52-611

Owner: L. V. Park

DATE	WATER LEVEL
Jan. 27, 1967	25
Mar. 24, 1969	26.70

Well BY-31-52-709

Owner: Dale George

DATE	WATER LEVEL
June 30, 1966	49.96
Mar. 24, 1969	50.03

Well DY-31-52-804

Owner: John W. Boswell

DATE	WATER LEVEL
Mar. 24, 1969	80.65

Well DY-31-52-904

Owner: Feitz Terrill

DATE	WATER LEVEL
July 15, 1965	14.95
Apr. 19, 1966	29.44
Mar. 21, 1967	16.80
Mar. 24, 1969	33.60

Well DY-31-53-414

Owner: Ardean Kimmell

DATE	WATER LEVEL
Aug. 27, 1968	40
Mar. 27, 1969	55.26

Well DY-31-53-701

Owner: James D. Gardner

DATE	WATER LEVEL
Oct. 1, 1959	67
Apr. 1, 1966	66.54
Mar. 21, 1968	68.16
Mar. 26, 1969	67.65

Well DY-31-53-721

Owner: Dale Johnson

DATE	WATER LEVEL
Mar. 2, 1965	35
Apr. 19, 1966	44.73
Mar. 21, 1967	45.04

Well DY-31-53-722

Owner: Dale Johnson

DATE	WATER LEVEL
Apr. 19, 1966	54.30
Mar. 21, 1967	50.72
Mar. 26, 1969	50.05

Well DY-31-57-606

Owner: Oscar White

DATE	WATER LEVEL
July 5, 1965	40.53
Mar. 24, 1966	44.28
Mar. 15, 1967	41.55

Well DY-31-58-703

Owner: T. E. Simonton

DATE	WATER LEVEL
July 9, 1965	38
Mar. 24, 1966	34.42
Mar. 26, 1969	33.57

Well DY-31-59-302

Owner: E. L. White

DATE	WATER LEVEL
Mar. 23, 1966	46.16
Mar. 21, 1967	20.64
Mar. 26, 1969	20.82

Table 4.—Water Levels in Selected Wells in Comanche County—Continued

DATE	WATER LEVEL
Well DY-31-59-703	
Owner: Charles Carter	
June 29, 1966	23.62
Mar. 26, 1969	23.89
Well DY-31-59-901	
Owner: Jack Martin	
Oct. 28, 1959	27
Mar. 23, 1966	24.90
Mar. 21, 1967	25.79
Mar. 26, 1969	25.03
Well DY-31-60-101	
Owner: Elvin Walker	
Aug. 11, 1965	10.03
Apr. 19, 1966	9.34
Mar. 21, 1967	9.75
Mar. 22, 1968	8.69
Mar. 26, 1969	11.46
Well DY-31-60-206	
Owner: Bill Dendy	
Dec. 9, 1959	45
July 13, 1965	41.00
Apr. 19, 1966	32.99
Mar. 21, 1967	42.23
Mar. 22, 1968	43.16
Mar. 24, 1969	42.08
Well DY-31-60-211	
Owner: L. M. Richman	
Sept. 1, 1966	59.22
Sept. 27, 1966	58.16
Nov. 2, 1966	58.53
Nov. 29, 1966	57.97
Jan. 4, 1967	58.41
Feb. 8, 1967	57.98
Mar. 7, 1967	58.16
May 2, 1967	58.39
June 7, 1967	58.23
July 5, 1967	58.49

DATE	WATER LEVEL
Well DY-31-60-211—Continued	
Aug. 3, 1967	59.17
Sept. 11, 1967	60.20
Oct. 3, 1967	59.52
Nov. 7, 1967	59.54
Dec. 4, 1967	59.14
Jan. 3, 1968	59.05
Feb. 5, 1968	62.50
Mar. 22, 1968	59.09
Mar. 26, 1969	58.82
Well DY-31-60-213	
Owner: Bill Wilkerson	
Oct. 9, 1964	60
Sept. 30, 1965	52.90
Apr. 1, 1966	51.85
Mar. 4, 1967	53.6
Mar. 26, 1969	52.96
Well DY-31-60-401	
Owner: O. G. Gilchrist	
Mar. 24, 1966	13.24
Mar. 7, 1967	13.86
Mar. 26, 1969	12.83
Well DY-31-60-503	
Owner: Tommie Lawless	
Mar. 24, 1966	16.00
Mar. 7, 1967	17.13
Mar. 26, 1969	17.42
Well DY-31-60-901	
Owner: I. N. Grissom	
Jan. 20, 1960	33
Apr. 15, 1966	29.58
Sept. 1, 1966	30.28
Sept. 27, 1966	30.06
Nov. 2, 1966	30.23
Nov. 30, 1966	30.38
Jan. 4, 1967	30.69
Feb. 8, 1967	30.60

DATE	WATER LEVEL
Well DY-31-60-901—Continued	
Mar. 7, 1967	30.45
May 3, 1967	31.36
July 5, 1967	32.04
Aug. 3, 1967	32.21
Sept. 11, 1967	31.90
Oct. 4, 1967	31.55
Dec. 5, 1967	30.80
Jan. 4, 1968	30.80
Feb. 6, 1968	30.83
Mar. 27, 1969	29.12
Well DY-31-61-201	
Owner: George Caraway	
Jan. 20, 1960	37
Apr. 1, 1966	37.14
Mar. 7, 1967	37.66
Mar. 22, 1968	37.62
Mar. 27, 1969	37.23
Well DY-31-61-404	
Owner: J. C. Barnes	
Apr. 15, 1966	58.29
Mar. 7, 1967	57.07
Mar. 27, 1969	54.81
Well DY-31-61-703	
Owner: E. G. McKinnon	
July 20, 1965	60.1
Mar. 7, 1967	54.26
Mar. 22, 1968	56.97
Well DY-41-02-603	
Owner: Mrs. H. T. Redwine	
Mar. 24, 1966	78.44
Mar. 6, 1967	78.20
Mar. 26, 1969	78.45

Table 4.—Water Levels in Selected Wells in Comanche County—Continued

Well DY-41-03-101

Owner: Roland Collins

DATE	WATER LEVEL
Oct. 28, 1959	30
July 5, 1965	27.21
Mar. 24, 1966	27.90
Mar. 6, 1967	28.03

Well DY-41-03-903

Owner: W. C. Chilton

DATE	WATER LEVEL
Oct. 8, 1965	50.50
Mar. 24, 1966	51.14
Mar. 6, 1967	51.42
Mar. 26, 1969	50.85

Well DY-41-04-204

Owner: A. L. Hendrix

DATE	WATER LEVEL
Mar. 26, 1969	21.62

Well DY-41-04-502

Owner: Elton McDonald

DATE	WATER LEVEL
July 29, 1965	81.43
Mar. 24, 1966	75.73
Mar. 7, 1967	95.60
Mar. 27, 1969	67.35

Well DY-41-04-603

Owner: Rhea T. Hoff

DATE	WATER LEVEL
Nov. 16, 1959	50
July 12, 1965	61.32
Mar. 24, 1966	41.73
Mar. 6, 1967	40.39
Mar. 21, 1968	36.10
Mar. 27, 1969	39.32

Well DY-41-04-701

Owner: Comanche Public School

DATE	WATER LEVEL
July 6, 1965	25.80
Mar. 24, 1966	26.35
Mar. 26, 1969	26.00

Well DY-41-05-105

Owner: U.S. Army Corps of Engineers

DATE	WATER LEVEL
Mar. 27, 1969	50.96

Well DY-41-05-202

Owner: John Croft

DATE	WATER LEVEL
July 30, 1965	36.74
Mar. 25, 1966	24.15
Mar. 6, 1967	26.22
Mar. 27, 1969	24.46

Well DY-41-05-204

Owner: Joe Dorsey

DATE	WATER LEVEL
Jan. 19, 1960	21
Oct. 8, 1965	23.58
June 27, 1966	23.47
Sept. 1, 1966	23.32
Sept. 27, 1966	22.55
Nov. 2, 1966	23.01
Nov. 30, 1966	23.39
Jan. 4, 1967	23.71
Feb. 7, 1967	23.97
Mar. 6, 1967	24.16
May 3, 1967	24.51
June 7, 1967	24.72
July 5, 1967	24.90
Aug. 3, 1967	25.14
Sept. 11, 1967	26.58
Oct. 4, 1967	26.03
Nov. 7, 1967	26.08
Dec. 5, 1967	26.04
Jan. 4, 1968	26.20
Feb. 6, 1968	24.55
Mar. 21, 1968	23.96
Mar. 27, 1969	24.32

Well DY-41-05-503

Owner: Irvin Dunn

DATE	WATER LEVEL
July 9, 1965	39.23
Apr. 19, 1966	40.78
Mar. 7, 1967	39.37
Mar. 27, 1969	40.68

Well DY-41-05-801

Owner: George Stephens

DATE	WATER LEVEL
Oct. 2, 1959	25
July 1, 1965	21.73
Apr. 14, 1966	23.12
Mar. 22, 1967	22.75
Mar. 27, 1969	22.66

Well DY-41-05-901

Owner: Guy E. Moore

DATE	WATER LEVEL
Oct. 2, 1959	71
Dec. 8, 1959	64
June 30, 1965	68.24
Sept. 1, 1966	72.59
Sept. 27, 1966	69.71
Nov. 2, 1966	70.31
Nov. 29, 1966	71.67
Jan. 4, 1967	70.71
Feb. 8, 1967	70.40
Mar. 22, 1967	70.66
May 3, 1967	69.91
June 7, 1967	72.76
Sept. 11, 1967	77.20
Oct. 4, 1967	73.31
Nov. 8, 1967	73.65
Dec. 5, 1967	72.58
Jan. 4, 1968	72.79
Feb. 6, 1968	66.96
Mar. 27, 1969	67.60

Well DY-41-05-902

Owner: J. A. Thompson

DATE	WATER LEVEL
Oct. 2, 1959	24
July 1, 1965	22.26
Apr. 14, 1966	26.51
Mar. 22, 1967	22.36
Mar. 27, 1969	19.67

Table 4.—Water Levels in Selected Wells in Comanche County—Continued

Well DY-41-06-501

Owner: J. W. Barbee

DATE	WATER LEVEL
Oct. 26, 1959	122
Sept. 9, 1968	122.25
Mar. 27, 1969	125.18

Well DY-41-06-701

Owner: W. D. Bryson

DATE	WATER LEVEL
Oct. 26, 1959	66
June 30, 1965	65.65
Apr. 14, 1966	66.48
Mar. 22, 1967	67.72
Mar. 27, 1969	66.57

Well DY-41-06-901

Owner: Sherman Henson

DATE	WATER LEVEL
June 28, 1965	60.37
Apr. 14, 1966	113.20
Mar. 22, 1967	113.01
Mar. 27, 1969	112.65

Well DY-41-12-101

Owner: City of Comanche

DATE	WATER LEVEL
Sept. 3, 1946	14
Nov. 3, 1959	8
Mar. 25, 1966	10.52
Mar. 6, 1967	10.74
Mar. 21, 1968	7.92
Mar. 27, 1969	9.80

Well DY-41-12-201

Owner: Brady York

DATE	WATER LEVEL
Oct. 20, 1959	64
July 5, 1965	62.96
Apr. 15, 1966	62.63
Sept. 1, 1966	60.95
Sept. 27, 1966	62.98

Well DY-41-12-201—Continued

DATE	WATER LEVEL
Nov. 2, 1966	63.24
Nov. 30, 1966	63.42
Jan. 2, 1967	63.04
Feb. 8, 1967	63.35
Mar. 15, 1967	63.90
May 3, 1967	63.23
July 5, 1967	63.59
Aug. 3, 1967	63.57
Sept. 12, 1967	63.69
Oct. 4, 1967	63.72
Dec. 5, 1967	63.62
Jan. 4, 1968	63.91
Feb. 5, 1968	63.47
Mar. 27, 1969	62.56

Well DY-41-12-304

Owner: Buster McDonald

DATE	WATER LEVEL
July 26, 1965	100
Apr. 15, 1966	74.9
Mar. 15, 1967	52.81
Mar. 27, 1969	32.82

Well DY-41-13-201

Owner: Chester Evans

DATE	WATER LEVEL
July 2, 1965	33.79
Apr. 14, 1966	32.89
Mar. 15, 1967	32.43
Apr. 2, 1969	30.87

Well DY-41-13-301

Owner: Gustine Water Supply Corp.

DATE	WATER LEVEL
Jan. 4, 1967	48.14

Well DY-41-14-102

Owner: R. E. Adcock

DATE	WATER LEVEL
Oct. 16, 1959	72
Dec. 18, 1959	71
Apr. 14, 1966	93.56
Mar. 7, 1967	98.7
Mar. 27, 1969	67.46

Well DY-41-14-303

Owner: Euel Eddleman

DATE	WATER LEVEL
June 29, 1965	27
Apr. 14, 1966	34.13
Mar. 22, 1967	33.85
Mar. 27, 1969	34.20

Well DY-41-14-701

Owner: Gayle Isham, Jr.

DATE	WATER LEVEL
Apr. 16, 1966	235
Mar. 27, 1969	252.0

Well DY-41-15-401

Owner: F. L. Stephens

DATE	WATER LEVEL
Jan. 28, 1966	37
July 11, 1968	48.71
Mar. 27, 1969	48.57

Well DY-41-21-201

Owner: Roy Henson

DATE	WATER LEVEL
Jan. 18, 1960	71
Apr. 13, 1966	71.35
Mar. 15, 1967	73.81
Mar. 27, 1969	70.03

COMANCHE COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kca, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
DY-31-51-603	56	July 28, 1965	Ktp	25	--	174	13	97	--	350	52	220	0.6	55.0	--	990	811	486	30	1,400	7.1	1.9
605	75	do.	do.	20	--	95	5	35	--	281	26	42	.7	24	--	530	386	259	23	653	7.6	1.0
606	75	July 22, 1968	do.	19	--	97	6	44	3.0	298	33	53	.3	16.5	0.1	416	--	270	26	700	7.4	1.2
607	90	Aug. 9, 1965	do.	18	--	237	11	65	--	362	43	321	.2	3	--	1,060	879	640	18	1,600	7.1	1.1
1/ 52-402	60	May 21, 1937	do.	--	--	--	--	--	--	293	84	365	--	--	--	930	--	--	--	--	--	--
402	60	Aug. 13, 1966	do.	20	--	234	15	98	--	345	60	352	.1	3	--	950	--	650	25	1,670	7.1	1.7
2/ 408	80	Jan. 10, 1969	Khe, Kho	--	--	314	17.1	195.5	2.0	433.1	46	305.3	--	--	--	1,458	1,093	--	33	2,352	7.3	2.9
2/ 409	84	do.	Kho	--	--	480	85.4	282.9	2.7	854	96	745.5	--	--	--	2,726	2,113	--	28	4,596	7.1	3.1
2/ 410	80	do.	do.	--	--	620	103.7	501.4	4.7	762.5	120	1,189.2	--	--	--	3,799	2,914	--	36	6,128	7.4	4.9
504	74	July 13, 1965	Ktp	18	--	241	16	184	--	400	129	399	.4	29	--	1,420	1,220	670	37	2,060	7.2	3.1
505	83	Aug. 11, 1966	P	22	--	167	49	164	--	420	61	397	.3	< 0.4	--	1,070	--	620	37	1,860	7.3	2.9
608	103	Aug. 9, 1965	Ktp	24	--	40	4	23	--	128	19	15	.3	31	--	284	219	117	30	349	7.0	.93
2/ 703	90	May 4, 1967	do.	--	--	226	32.9	82.8	3.9	244	100.8	117.1	--	--	--	1,049	684	--	20	1,685	6.6	1.4
703	90	Mar. 13, 1969	do.	22	--	205	17	88	--	345	68	289	.3	11.5	--	870	--	590	25	1,490	7.0	1.7
707	82	July 13, 1965	do.	23	--	305	31	212	--	423	93	630	.7	6	--	1,720	1,512	890	34	2,630	7.1	3.1
2/ 710	100	May 4, 1967	do.	--	--	358	36.6	119.6	3.9	244	48	181	--	--	--	1,529	868	--	20	2,466	6.9	1.6
710	100	Mar. 13, 1969	do.	22	--	323	27	116	--	268	87	620	< .1	3.5	--	1,330	--	920	22	2,320	6.7	1.6
3/ 907	110	Jan. 24, 1969	do.	--	--	--	--	---	--	--	--	--	--	--	--	1,664	--	--	--	2,600	7.0	--
2/ 907	110	Feb. 20, 1969	do.	--	--	114	46.4	147.2	4.3	469.7	33.6	305.3	--	--	--	1,493	882	--	40	2,408	7.2	2.9
907	110	Mar. 10, 1969	do.	50	16.8	199	43	367	--	540	185	570	1.8	< .4	--	1,680	1,699	670	54	2,630	7.1	6.2
3/ 908	111	Jan. 24, 1969	do.	--	--	--	--	--	--	--	--	--	--	--	--	454.4	--	--	--	730	7.4	--
53-407	120	July 16, 1965	do.	18	--	63	5	32	--	200	16	44	.5	12	--	391	289	178	28	492	7.2	1.1
703	112	July 13, 1965	do.	14	--	88	25	36	--	333	27	71	.5	< .4	--	600	426	324	20	750	7.4	.9
4/ 57-604	100	Dec. 10, 1959	Ka	15	--	120	35	* 60.7	--	401	34	138	--	5.1	.26	605	--	444	23	1,090	6.8	1.3
604	100	July 5, 1965	do.	14	--	125	37	62	--	399	38	156	.7	11	--	840	640	465	23	1,138	7.3	1.3
604	100	Aug. 11, 1966	do.	15	--	118	37	54	--	405	28	142	.3	7	--	600	--	447	21	1,070	7.3	1.1

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
DY-31-57-604	100	Mar. 6, 1969	Ka	13	--	143	42	63	--	429	34	188	.5	5.6	--	700	--	530	21	1,200	7.3	1.2
606	100	Aug. 11, 1966	Ka	16	--	78	19	40	--	283	20	63	0.3	15	--	390	--	274	24	688	7.5	1.1
58-702	56	July 9, 1965	Ktp	21	--	110	26	61	--	434	36	64	1.8	27.0	--	580	560	383	26	920	7.4	1.4
702	56	July 23, 1968	do.	22	--	112	25	65	4.0	429	38	82	.9	25	0.2	580	--	384	27	980	7.2	1.4
1/ 59-201	160	Jan. 20, 1960	Ktp, P	13	1.2	141	47	* 98	--	423	50	252	.3	4.8	--	874	815	546	28	1,470	7.3	1.8
205	106	Mar. 5, 1969	Ktp	18	--	248	68	610	--	422	49	1,300	.6	5	--	2,510	--	900	60	4,210	7.1	8.9
301	219	July 16, 1965	P	7	--	10	4	196	--	353	44	97	--	< .4	--	710	532	43	91	910	8.3	13.1
302	262	Aug. 10, 1965	Ktp, P	20	--	54	36	250	--	520	68	236	1	< .4	--	1,190	925	285	66	1,600	7.4	6.5
304	145	July 20, 1965	Ktp	33	--	71	12	4	--	255	11	6	.7	10	--	403	273	227	4	439	7.9	0.1
1/ 60-202	74	Dec. 9, 1959	do.	20	--	218	19	* 128.2	--	431	54	335	--	10	.08	996	--	622	31	1,790	6.8	2.2
209	103	July 13, 1965	do.	21	--	231	20	72	--	361	56	325	.4	8	--	1,090	913	650	19	1,610	7.2	1.2
213	98	Sept. 30, 1965	Kbo	17	--	166	10	46	--	331	23	176	.2	5	--	770	606	457	18	1,080	7.3	.9
215	100	Mar. 25, 1969	do.	7	--	65	5	24	--	206	15	27	.4	1.0	--	245	--	184	22	460	7.5	.8
215	100	do.	do.	8	--	90	8	29	--	292	12	43	< .1	< .4	--	334	--	258	19	598	7.4	.8
215	100	do.	do.	7	--	94	8	30	--	310	10	46	< .1	< .4	--	347	--	269	20	624	7.3	.8
215	100	do.	do.	6	--	94	8	30	--	306	10	46	< .1	< .4	--	344	--	268	20	620	7.3	.8
215	100	do.	do.	7	--	96	9	30	--	314	9	47	.3	< .4	--	352	--	274	19	631	7.3	.8
215	100	do.	do.	7	--	98	8	31	--	322	9	49	.2	.5	--	361	--	280	19	647	7.3	.8
215	100	do.	do.	6	--	100	9	31	--	326	9	51	.2	.5	--	367	--	285	19	655	7.3	.8
215	100	Mar. 26, 1969	do.	7	--	100	9	31	--	325	9	51	.2	< .4	--	367	--	285	19	656	7.3	.8
215	100	do.	do.	20	--	101	9	32	--	327	11	52	< .1	2	--	388	--	290	20	664	7.3	.8
215	100	Mar. 27, 1969	do.	19	--	101	9	32	--	327	11	53	< .1	1	--	387	--	290	20	666	7.3	.8
215	100	Mar. 28, 1969	do.	18	--	101	9	32	--	327	12	54	< .1	2	--	389	--	290	20	671	7.3	.8
2/ 217	103	Mar. 13, 1969	do.	--	--	48	44	41	1	321	55	72.5	--	--	--	422	--	--	23	660	7.8	1.0
218	101	Mar. 7, 1969	do.	17	--	86	13	43	--	320	23	47	.2	5	--	391	--	269	26	675	7.4	1.1
2/ 218	101	Mar. 14, 1969	do.	--	--	68	23	44	6.7	302	40	60	--	--	--	533	390	--	26	680	7.7	1.2
2/ 221	32	do.	Khe	--	--	28	5	100	.8	248	175	30	--	--	--	425	461	--	71	585	8.0	4.6
1/ 312	200	Mar. 20, 1946	Ktp, P	12	0.03	150	22	* 22.8	--	296	33	160	.0	8.2	--	675	554	465	10	973	7.2	.5
1/ 315	200	Mar. 20, 1946	Ktp, P	12	.04	162	20	* 20.4	--	390	86	242	.0	6	--	912	740	486	8	1,530	7.2	.4
802	25	July 24, 1968	Ktp	--	--	--	--	--	3	--	--	--	--	--	.1	--	--	--	--	--	--	--
808	110	July 12, 1965	do.	24	--	91	8	43	--	293	31	43	.9	22	--	560	407	262	27	673	7.4	1.2
61-107	95	July 19, 1965	Kbo	20	--	73	5	43	--	254	20	37	.3	22	--	474	345	204	32	578	7.3	1.3
1/ 201	61	Jan. 20, 1960	Kbo	19	--	134	14	* 86	--	463	36	95	.2	34	--	646	--	392	32	1,070	7.2	1.9
1/ 401	89	Jan. 21, 1960	do.	11	2.0	102	42	* 52	--	429	38	100	--	11.0	--	579	--	427	21	1,000	7.5	1.1

See footnotes at end of table.

Table 5.--Chemical Analyses of Water from Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
DY-31-61-701	135	July 20, 1965	Ktp	21	--	108	20	41	--	376	24	76	.3	7	--	670	482	351	20	882	7.3	.9
802	160	July 29, 1965	do.	17	--	239	36	95	--	398	47	395	.4	22	--	1,050	--	750	22	1,900	7.2	1.5
1/ 41-02-110	106	Dec. 9, 1959	Khe	15	--	118	66	* 84	--	451	174	126	.6	25	--	864	831	566	24	1,350	7.3	1.5
901	111	Mar. 10, 1969	do.	16	--	87	25	13	--	317	46	26	.4	< 0.4	--	369	--	322	82	620	7.5	.3
03-101	80	Sept. 9, 1968	Ktp	17	--	144	45	69	--	456	118	152	.4	2	--	770	--	550	22	1,290	7.2	1.3
04-302	66	Oct. 23, 1964	do.	--	< .02	194	87	90	--	449	75	423	.3	7	--	1,330	1,100	840	19	2,365	7.6	1.4
303	63	do.	do.	--	< .02	156	77	122	--	466	72	367	.3	9	--	1,270	1,032	710	27	2,200	7.7	2.0
503	125	July 15, 1965	do.	15	--	80	62	54	--	461	66	91	.7	< .4	--	830	596	456	21	1,035	7.4	1.1
701	88	Sept. 9, 1968	Khe	16	--	100	30	30	--	409	29	35	.5	21.5	--	464	--	375	15	775	7.3	.7
05-102	80	Oct. 26, 1964	Ktp	--	.06	324	247	210	--	580	670	830	.6	< .4	--	2,860	2,567	1,830	20	5,330	7.0	2.1
103	93	Oct. 23, 1964	do.	--	.29	80	28	15	--	379	17	19	.4	1.5	--	540	347	316	9	672	7.6	.4
104	84	Oct. 26, 1964	do.	--	< .02	121	77	54	--	436	30	248	.3	11	--	980	755	620	16	1,632	7.3	.9
105	110	Apr. 4, 1961	Kho	--	.14	104	58	64	--	470	62	135	.1	6	--	762	660	500	22	1,270	7.3	1.2
208	124	July 30, 1965	Kcp	18	--	88	59	40	--	417	26	129	.3	3.5	--	780	569	463	16	1,021	7.3	.8
502	140	July 1, 1965	do.	28	--	63	52	79	--	434	30	102	1.1	15	--	580	--	373	32	1,010	7.8	1.8
503	156	July 9, 1965	do.	17	--	197	32	75	--	372	68	279	.7	17	--	1,060	871	620	21	1,540	7.3	1.3
801	85	July 1, 1965	do.	11	--	73	82	108	--	500	111	149	.8	< .4	--	780	--	520	31	1,350	7.8	2.1
1/ 901	142	Dec. 8, 1959	do.	24	--	84	28	* 53	--	378	40	62	--	6	0.06	483	--	324	26	830	6.7	1.3
902	118	July 1, 1965	do.	17	--	60	74	145	--	550	77	138	2.8	21	--	810	--	454	41	1,370	7.9	3
906	122	July 2, 1965	do.	23	--	233	119	169	--	560	238	486	1.2	7	--	1,550	--	1,070	26	2,550	7.3	2.2
501	250	Sept. 9, 1968	Khe	18	--	87	29	19	--	386	41	16	.4	< .4	--	400	--	338	11	665	7.4	.5
06-701	190	June 30, 1965	Kho	14	--	79	25	37	--	353	29	30	0.8	15	--	404	--	302	21	700	7.4	0.9
1/ 11-803	100	Jan. 19, 1960	Kp	14	4.9	84	29	* 23	--	378	35	22	.6	.5	--	394	--	328	13	667	7.3	.6
1/ 12-101	123	Sept. 3, 1946	Kgr, Khe	--	--	62	31	* 13	--	312	4	36	--	.8	--	336	300	282	9	--	--	.3
1/ 901	70	Jan. 18, 1960	Khe	20	0.36	126	86	* 141	--	416	183	225	--	155	--	1,140	--	668	31	1,800	7.1	2.4
13-103	145	July 5, 1965	Khe, Kho	15	--	76	43	43	--	411	62	44	.7	2	--	700	488	368	20	830	7.4	1.0
2/ 301	173	Dec. 9, 1966	do.	--	.05	53.7	19	61.9	--	253.8	42.4	67	.5	15	--	513.3	385	212	39	720	7.9	1.8
301	173	Apr. 5, 1967	do.	--	.04	79	11	21	--	245	22	23	.3	41	--	442	317	243	16	600	7.8	.6
301	173	Apr. 17, 1968	do.	--	< .02	67	24	69	--	275	51	86	.5	31	--	600	464	267	36	--	7.8	1.8
1/ 14-102	179	Dec. 8, 1959	Ktp	22	--	150	67	* 154.4	--	432	334	188	--	13	.11	1,180	1,141	296	34	1,760	7.0	2.6
102	179	June 29, 1965	do.	14	--	83	51	83	--	455	109	71	.6	< .4	--	640	--	415	30	1,064	7.5	1.8
105	155	June 30, 1965	do.	24	--	280	132	219	--	462	630	456	.8	< .4	--	1,970	--	1,240	28	2,910	7.1	2.7
106	182	June 23, 1968	Kho	21	--	122	38	114	3	471	110	143	.6	10	.3	790	--	462	35	1,300	7.2	2.3

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
DY-41-14-303	150	June 29, 1965	Khe	15	--	80	30	34	--	379	34	32	.5	< .4	--	412	--	323	19	713	7.3	.8
303	150	July 23, 1968	do.	--	--	--	--	--	3	--	--	--	--	--	.3	--	--	--	--	--	--	--
701	335	Sept. 10, 1968	do.	17	--	38	27	82	--	359	57	31	.5	< .4	--	430	--	208	46	730	7.7	2.5
1/ 21-201	111	Jan. 18, 1960	Kp	14	3.9	100	17	* 16	--	332	57	16	.2	.5	--	394	--	320	10	641	7.0	.4

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

1/ U.S. Geological Survey Laboratory
2/ Texas A&M University
3/ Texas Department of Agriculture
4/ Pope Testing Laboratories

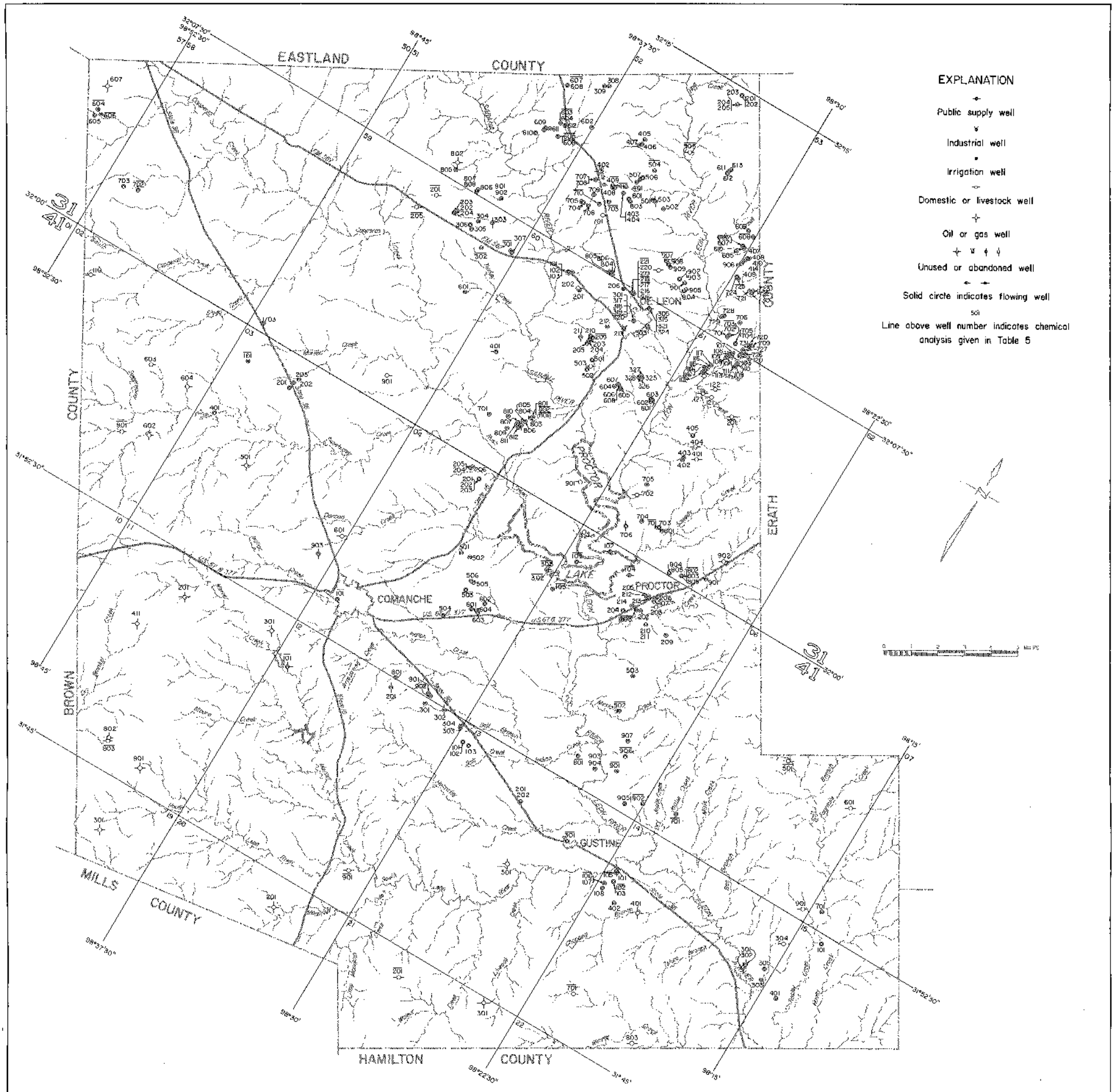
COMANCHE COUNTY

Table 6.--Chemical Analyses of Oil-Field Brines

(Analyses are given in parts per million except pH)

SYSTEM	PRODUCING ZONE	FIELD	AVERAGE DEPTH (FT)	AREA SHOWN ON FIGURE 18, VOLUME I	CALCIUM (Ca)	MAG-NESIUM (Mg)	SODIUM (Na)	BICAR-BONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	TOTAL DISSOLVED SOLIDS	pH
— [a]	—	Smith-Morgan	—	K-6	1,360	313	8,300	83	4	15,300	26,300	7.3

[a] Analyses obtained by Texas Water Development Board.



Location of Selected Water, Oil, and Gas Wells in Comanche County

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* HE-40-19-803	Curtis Watson	Clarence Erickson	1965	334	4	334	Kp	1,045	274 278.58	Apr. 14, 1965 Mar. 19, 1969	C, E 1	D, S	Perforated from 307 to 334 ft. Pumping level 294 ft at 10 gpm on Apr. 14, 1965. Pump set at 290 ft. Reported yield 5 gpm. Gravel packed. Temp. 70°F. Texas Water Development Board observation well. 1/ 4/
* 901	John A. Kyle	R. A. Adams and Son	1960	792	7 5	20 792	Khe	990	--	--	C, E	D, S	Slotted. Reported yield 20 gpm.
25-401	Joe Faubion	do.	1962	107	7 5	30 107	Kp	1,065	45 56.24	May 1962 Mar. 19, 1969	J, E 1/2	D	Pump set at 90 ft. Reported yield 6 gpm. Cemented from 30 ft to surface. Texas Water Development Board observation well. 1/ 4/
801	-- Adams	Phillips Petroleum Co.	1957	670	8	634	Khe, Kho	970	--	--	--	Irr	Gun perforated with 16 shots 358 to 374 ft, 13 shots 456 to 466 ft, 18 shots 474 to 489 ft, 21 shots 520 to 540 ft, 16 shots 547 to 560 ft, 10 shots 567 to 577 ft, 20 shots 594 to 616 ft, and 2 shots 624 to 625 ft. Well originally drilled as oil test to 3,550 ft and plugged back to 670 ft. 2/
* 902	Levita Water Supply Corp.	James Mathew Adams	1968	417	7	417	Khe	935	308.10	Dec. 30, 1968	Sub, E	P	Gun perforated from 360 to 385 ft. Well drilled to 588 ft and plugged back to 417 ft. Cemented from 587 ft to surface. 1/ 2/
* 26-101	R. A. Adams	R. A. Adams and Son	1953	423	7 6	55 --	do.	950	250 275.10	1960 Mar. 30, 1966	C, E	D, S	Reported yield 18 gpm. 1/
* 102	Jonesboro Water Supply Corp.	C. M. Stoner Drilling Drilling Co.	1965	622	7	622	Kho	982	335 338.85	Mar. 14, 1965 Mar. 19, 1969	Sub, E 15	P	Gun perforated with 77 shots 574 to 612 ft. Pumping level 365 ft at 74 gpm on Mar. 24, 1965. Pump set at 464 ft. Reported yield 73 gpm. Cemented from 622 ft to surface. Texas Water Development Board observation well. 1/ 2/ 3/ 4/
401	R. L. Campbell	R. A. Adams and Son	1963	120	6 5	25 120	Kp	970	70 81.20	Mar. 1963 Mar. 19, 1969	Sub, E 1/4	D, S	Perforated from 80 to 90 ft. Bailing level 120 ft at 13 gpm in Mar. 1963. Pump set at 105 ft. Reported yield 5 gpm. Texas Water Development Board observation well. 1/ 4/
702	E. E. Vermillion	James Mathew Adams	1965	509	8	509	Kcp	860	--	--	T, G 60	Irr	Slotted from 300 to 509 ft. Pumping level 300 ft at 550 gpm on Sept. 13, 1965. Pump set at 411 ft. Well was acidized. 1/
* 801	Paul Hinson	--	1959	200	5	--	Kp, Kgr	957	--	--	C, E	D, S	Slotted.
* 27-102	Turnersville Water Supply Corp.	J. L. Myers Sons	1963	1,003	10 7	10 946	Khe, Kho	1,085	460 490.0	Nov. 2, 1963 Mar. 19, 1969	Sub, E 10	P	Perforated from 900 to 946 ft. Gun perforated with 10 shots 750 to 760 ft, 10 shots 770 to 780 ft, 10 shots 832 to 842 ft, 10 shots 882 to 892 ft, and 10 shots 912 to 922 ft. Pumping level 500 ft at 107 gpm in Nov. 1963. Pump set at 575 ft. 1/ 2/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING DIAMETER (in.)	CASING DEPTH (ft)	WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	WATER LEVEL DATE OF MEASUREMENT	METHOD OF LIFT	USE OF WATER	REMARKS
	(8-40-27-401	A. L. Carroll	Dan Adams	1945	217	5	217	Kp	990	60 90.40	1961 Jan. 3, 1969	C, W	D, S	Pump set at 200 ft.
*	28-402	Joe Tubbs	Frank Baker Place	1964	410	6 5	35 398	do.	990	200 245.0	Apr. 6, 1964 Sept. 19, 1968	Sub, E 3/4	D	Open hole completion from 35 to 310 ft and slotted from 380 to 390 ft. Temp. 70°F. Texas Water Development Board observation well. 1/ 4/
	34-601	Coryell County	--	--	675	--	--	Ktp	805	130	July 1937	N	N	Well abandoned.
	604	Curtis Davis	Garland Engineers	1964	524	5	480	Khe	885	265 327.82 327.10	Mar. 29, 1964 May 6, 1968 Mar. 21, 1969	Sub, E 5	P	Open hole completion from 480 to 532 ft. Pumping level 400 ft at 22 gpm on Mar. 24, 1964. Pump set at 485 ft. Cemented from 480 ft to surface.
*	35-101	Gatesville State School for Boys	--	1922	728	8	--	Ktp	890	178	Sept. 1928	N	N	Reported yield 125 gpm in 1942. Well plugged and abandoned.
	102	do.	--	--	749	6	--	do.	890	180	Nov. 14, 1939	N	N	Reported yield 100 gpm in 1942. Well plugged and abandoned.
*	103	do.	Kenton Preston	1946	771	10 6	575 771	Khe, Kho	890	290 387	July 8, 1952 Mar. 18, 1969	T, E 20	P	Perforated from 575 to 590, 598 to 611, 635 to 659, and 705 to 770 ft. Pumping level 302 ft at 40 gpm on July 8, 1952. Reported yield 350 gpm. Cemented from 575 ft to surface. Texas Water Development Board observation well. 1/ 4/
*	104	do.	Layne Texas Co.	1949	762	10 8	562 762	do.	890	290	1949	T, E 30	P	Screened from 584 to 609, 638 to 658, and 710 to 760 ft. Reported yield 257 gpm. 1/ 3/
*	107	Mountainview State School for Boys	J. L. Myers Sons	1961	898	18 13 8	13.8 790 --	Kho	961	419	Feb. 10, 1961	T, E 50	P	Screened from 790 to 882 ft. Reported yield 250 gpm. Cemented from 790 ft to surface. 1/ 3/
*	401	City of Gatesville	--	--	680	10 8	100 --	Ktp	755	+ 82 130 130 110 138 292 290	1898 1933 July 1934 July 1937 Oct. 1939 June 1946 July 1955 July 1959	T, E 20	P	Reported yield 380 gpm.
*	402	do.	--	--	680	8	768	do.	755	110 138 298 257.75 295.0	Nov. 6, 1939 June 4, 1946 Oct. 2, 1964 Apr. 5, 1966 Aug. 25, 1966	T, E 60	P	Pumping level 420 ft at 150 gpm on Oct. 2, 1964. Pump set at 430 ft.
*	403	do.	Kenton Preston	1949	828	12 10	700 828	Kho	825	298 338.60	Oct. 2, 1964 Mar. 15, 1968	Sub, E 100	P	Screened from 702 to 802 ft. Pumping level 420 ft at 550 gpm on Oct. 2, 1964. Pump set at 508 ft. Reported yield 500 gpm. Cemented from 700 ft to surface. Texas Water Development Board observation well. 1/ 4/
*	404	do.	Layne Texas Co.	1955	755	16 12 10	73 694 755	do.	823	292 345.93	July 18, 1955 Mar. 16, 1967	T, E	P	Screened from 695 to 739 ft. Pumping level 368 ft at 285 gpm on July 21, 1955. Pump set at 512 ft. 1/
*	405	do.	R. A. Adams and Son	1933	700	8 6	20 565	Ktp	785	130	July 1934	T, E 25	P	Slotted from 425 to 565 ft. Open hole from 565 to 700 ft. Pump set at 360 ft. Reported yield 225 gpm. 1/
*	407	do.	--	--	700	8	300	do.	825	--	--	N	N	Reported yield 300 gpm in 1940. Well plugged and abandoned.

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	HR-40-35-409	City of Gatesville	Layne Texas Co.	1968	916	12 10	770 895	Kbo	900	449	Mar. 11, 1968	T, E 200	P	Screened from 785 to 875 ft. Pumping level 588 ft at 818 gpm on Mar. 11, 1968. Pump set at 700 ft. Reported yield 800 gpm. Gravel packed. 1/ 2/
	501	Mountain Water Supply Corp.	Jones Drilling Co. and James Mathew Adams	1966	1,045	--	--	do.	1,025	527	Jan. 1967	--	P	2/
*	701	Fort Gates Water Supply Corp.	J. B. Farquharson	1964	821	10 7	10 821	do.	840	390 371.88	July 21, 1964 Mar. 19, 1969	Sub, E	P	Gun perforated from 700 to 750, 757 to 776, and 786 to 796 ft. Pump set at 504 ft. Reported yield 145 gpm. Cemented from 821 ft to surface. Texas Water Development Board observation well. 1/ 2/ 4/
*	801	U.S. Army	Layne Texas Co.	1943	755	10 8	522 755	Khe, Kho	731	149	June 1943	T, E 40	P	Perforated from 516 to 545 and 679 to 744 ft. Pumping level 298 ft at 227 gpm in June 1943. Pump set at 420 ft. Reported yield 300 gpm. Cemented from 522 ft to surface. 1/
*	802	do.	do.	1943	690	16 10 8	27 454 690	do.	730	63	Jan. 14, 1943	T, E	P	Perforated from 478 to 544 and 632 to 678 ft. Pumping level 272 ft at 242 gpm in Oct. 1946. Reported yield 300 gpm. Cemented from 483 ft to surface. 1/
*	803	do.	do.	1943	721	10 8	496 721	do.	740	85 183	Feb. 12, 1943 Oct. 1946	T, E 40	P	Perforated from 492 to 516 and 663 to 710 ft. Pumping level 292 ft at 285 gpm in Oct. 1946. Reported yield 300 gpm. Cemented from 496 ft to surface. 1/
*	804	Jack Fry	do.	1943	745	10 8	504 745	do.	750	101 271.04	Jan. 10, 1943 Mar. 19, 1969	Sub, E	D, S	Perforated from 492 to 534 and 671 to 737 ft. Reported yield 300 gpm. Texas Water Development Board observation well. 1/ 4/
*	805	U.S. Army	do.	1943	759	10 8	538 759	do.	782	132	Feb. 1943	N	N	Perforated from 537 to 554 and 699 to 748 ft. Pumping level 318 ft at 293 gpm in Feb. 1943. Reported yield 292 gpm. Well abandoned. 1/
*	36-601	F. B. Law	-- Cluck	1934	1,170	8 6	125 1,170	Ktp	850	326 300 349.5 356.0	Apr. 1956 Nov. 6, 1964 Feb. 17, 1965 Mar. 30, 1966	Sub, E 15	P	Pump set at 600 ft. Estimated yield 70 gpm.
*	602	Oglesby Water Supply Corp.	Key Water Well Drilling-Development Co.	1967	1,220	7	1,100	Kpe, Kho	845	747.3	Feb. 3, 1969	Sub, E 40	P	Slotted from 995 to 1,100 ft. Pumping level 860 ft at 120 gpm on Jan. 31, 1968. Pump set at 958 ft. Cemented from 1,000 ft to surface. 1/ 2/
*	41-201	John Murphy	Fowler Drilling Co.	1964	455	6	357	Khe, Kpe	1,025	170 207.02 205.20	Mar. 31, 1964 Oct. 8, 1968 Mar. 21, 1969	Sub, E 1	S	Open hole completion from 357 to 455 ft. Pump set at 340 ft. Reported yield 10 gpm. Temp. 71°F.
	601	Johnny Woodlief	J. B. Farquharson	1963	613	5 --	800 580	Ktp	970	170 207.30	June 1963 Mar. 18, 1969	Sub, E 2	D, S	Pumping level 380 ft at 15 gpm in June 1963. Texas Water Development Board observation well. 1/ 4/
	702	N. C. Storm and Joe Perkins	do.	1963	364	6	37	Kgr, Khe	1,080	250 187.8	Aug. 1963 Mar. 18, 1969	Sub, E	D	Open hole completion from 37 to 364 ft. Reported yield 12 gpm. Texas Water Development Board observation well. 1/ 4/
*	903	Ernest Pendleton	Fowler Drilling Co.	1967	271	5	36	do.	825	48.30 48.80	Oct. 7, 1968 Mar. 18, 1969	Sub, E 1/2	D	Open hole completion from 36 to 271 ft. Pump set at 210 ft. Reported yield 12 gpm. Temp. 70°F. 1/
*	43-201	U.S. Army	Layne Texas Co.	1942	765	10 8	505 760	Khe, Kho	765	97	Sept. 1946	T, E 40	P	Perforated from 505 to 555 and 697 to 747 ft. Pumping level 110 ft at 225 gpm in Sept. 1946 Reported yield 300 gpm. Cemented from 505 ft to surface. 1/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* HE-40-43-202	U.S. Army	Layne Texas Co.	1943	772	10 8	517 771	Khe, Kho	782	128	Feb. 2, 1943	N	N	Perforated from 531 to 599 and 726 to 760 ft. Pumping level 222 ft at 302 gpm on Feb. 2, 1943. Reported yield 300 gpm. Cemented from 517 ft to surface. Abandoned. 1/ 3/
* 203	do.	do.	1943	795	10 8	581 782	do.	780	150	Feb. 22, 1943	N	N	Perforated from 572 to 639 and 760 to 782 ft. Reported yield 300 gpm in 1943. Cemented from 581 ft to surface. Well plugged and abandoned. 1/
* 204	do.	do.	1943	758	10 8	533 758	do.	738	190	May 1943	T, R 40	P	Perforated from 533 to 550, 583 to 600, 684 to 715, and 725 to 746 ft. Pumping level 249 ft at 218 gpm in May 1943. Pump set at 400 ft. Reported yield 200 gpm. Cemented from 533 ft to surface. 1/
* 205	do.	do.	1943	755	10 8	517 755	do.	720	123	June 1943	T, E 40	P	Perforated from 518 to 550 and 681 to 745 ft. Pumping level 254 ft at 240 gpm in June 1943. Pump set at 400 ft. Reported yield 300 gpm. Cemented from 517 ft to surface. 1/
* 206	do.	do.	1942	735	10 8	505 731	do.	750	140 109	Dec. 26, 1942 Mar. 1943	T, E 40	P	Perforated from 496 to 563 and 651 to 718 ft. Pumping level 209 ft at 302 gpm in Mar. 1943. Pump set at 450 ft. Reported yield 300 gpm. Cemented from 505 ft to surface. 1/ 3/
* 207	do.	do.	1943	745	10 8	518 745	do.	727	86	Feb. 26, 1943	T, E 40	P	Perforated from 517 to 561 and 667 to 733 ft. Pump set at 450 ft. Reported yield 300 gpm. Cemented from 518 ft to surface. 1/
* 603	Flat Water Supply Corp.	Harvey Meadows and Son Well Driller	1965	993	7	990	Kho	870	390 403.14	July 31, 1965 Mar. 19, 1969	Sub, E 15	P	Perforated from 900 to 990 ft. Pump set at 500 ft. Reported yield 80 gpm. Texas Water Development Board observation well. 1/ 2/ 4/
* 44-501	Lonnie Donaldson	Allens Drilling Co.	1960	900	4	865	Kgr, Khe	885	300	1960	C, E	S	--
502	Temco Feed Mills	R. A. Adams and Son	--	905	4	868	Khe	845	--	--	--	D, S	Reported yield 25 gpm. 1/
* 801	Truman Bird	Jesse Sunden	1949	900	5	885	Kgr, Khe	862	189	1960	C, E	D, S	Open hole completion from 885 to 900 ft.
* 901	G. E. Wolfe	--	--	990	6	990	Kgr, Khe	780	24 220.15	1890 Mar. 15, 1968	C, E 3	N	Pump set at 270 ft. Texas Water Development Board observation well. 4/
* 902	The Grove Water Supply Corp.	Harvey Meadows and Son Well Driller	1968	1,126	7	1,126	Kho	800	172 343.30	Oct. 22, 1968 May 9, 1969	Sub, E 15	P	Slotted from 1,015 to 1,125 ft. Pumping level 412 ft at 65 gpm on Oct. 23, 1968. Pump set at 550 ft. Reported yield 170 gpm. 2/
* 45-401	Texas Parks and Wildlife Department	--	--	975	--	--	Kgr, Khe	712	93 230.75	Feb. 26, 1942 Mar. 10, 1966	C, E	N	Reported yield 20 gpm. 2/
* 402	do.	Watts Drilling Co.	1966	1,030	4	975	Khe	678	201.23 259.73	July 15, 1966 Mar. 20, 1969	Sub, E 2	P	Reported yield 16 gpm. Texas Water Development Board observation well. 4/
* 49-403	C. H. Cassens	Fowler Drilling Co.	1967	496	5	489	Khe, Kpe	1,105	270 261.50	Sept. 9, 1967 Oct. 8, 1968	Sub, E 1-1/2	D, S	Perforated from 335 to 355 and 450 to 460 ft. Pumping level 340 ft at 17 gpm on Sept. 9, 1967. Pump set at 399 ft. Temp. 72°F. 1/
* 57-301	City of Copperas Cove	--	1925	657	6	400	Ktp	1,095	140	June 3, 1946	N	N	Abandoned.
* 302	do.	Layne Texas Co.	1944	646	12 8	441 643	do.	1,105	140 300	June 3, 1946 June 3, 1961	N	N	Slotted from 442 to 465 and 475 to 643 ft. Pumping level 493 ft at 51 gpm on Aug. 3, 1944. Reported yield 50 gpm. Well plugged and abandoned. 1/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASURMENT			
* HB-40-57-303	Sam Millsap	J. L. Myers Sons	1951	573	5	573	Ktp	1,080	410 310.42	Apr. 10, 1951 Mar. 18, 1969	C, E	D	Perforated from 468 to 573 ft. Reported yield 10 gpm. Texas Water Development Board observation well. 1/ 4/
* 304	City of Copperas Cove	do.	1953	525	6	525	Khe, Kpe	1,080	286	Feb. 3, 1961	N	N	Well plugged and abandoned.
* 305	Willie Groth	Smart Drilling and Supply	1962	570	5	250	Kgr, Ktp	1,100	270	Feb. 2, 1962	Sub, E 1-1/2	D	Open hole completion from 250 to 570 ft. Pumping level 430 ft at 8 gpm on Feb. 2. 1962. Pump set at 475 ft. Temp. 72°F. 1/
* 41-39-301	L. S. Passmore	J. R. -Bob -Johnson Drilling and Supply	1936	522	6	522	Kho	1,250	360	1961	T, E 5	P	Slotted from 480 to 522 ft. Reported yield 12 gpm. Well supplied Evant, Texas.
* 302	do.	Edwin Dyson	1944	450	6	200	Ktp	1,255	350 299.5	1961 Mar. 30, 1966	Sub, E	P	Pump set at 425 ft. Reported yield 20 gpm. Well supplies Evant, Texas.
303	do.	J. L. Myers Sons	1951	486	8 7	368 486	do.	1,250	337.0 336.0	Apr. 11, 1967 Mar. 19, 1969	Sub, E 7-1/2	P	Slotted from 426 to 444 and 455 to 478 ft. Reported yield 40 gpm. Well drilled to 532 ft and plugged back to 486 ft. Texas Water Development Board observation well. Well supplies Evant, Texas. 1/ 4/
* 304	J. Y. Hamilton	James Mathew Adams	1964	535	5	400	Ktp	1,245	325.60 324.07	Aug. 26, 1966 Mar. 19, 1969	Sub, E 3	D, P	Open hole completion from 400 to 535 ft. Pump set at 380 ft. Reported yield 20 gpm. Cemented from 400 ft to surface. Temp. 74°F. Texas Water Development Board observation well. 4/
40-202	Floyd Elam	Tatum Drilling Co.	1964	95	5	95	Kp	1,105	40 37.60	Jan. 15, 1964 Jan. 3, 1969	C, E 1	D	Perforated from 45 to 65 and 85 to 95 ft. Pump set at 84 ft. Reported yield 5 gpm. Cemented from 19 ft to surface. 1/
601	Grady Keeton	James Mathew Adams	1959	581	--	--	Ktp	1,145	--	--	C, E	D, S	--
* 803	Mary Caddel	Jim Smith	1964	372	6 5	320 372	Khe	1,170	117.35 188.42	Apr. 8, 1966 Mar. 17, 1969	Sub, E	D, S	Completed from 350 to 372 ft. Reported yield 15 gpm. Temp. 73°F. Texas Water Development Board observation well. 4/
901	Harry King	Edwin Dyson	1934	440	6 5	200 440	Kgr, Khe	1,190	157.61 159.60	Apr. 8, 1966 Mar. 12, 1968	C, W	N	Open hole from 200 to 380 ft.
902	R. A. Manning	do.	1958	570	7 5 4	165 424 570	Ktp	1,225	184.55	Apr. 8, 1966	C, W	U, S	Open hole from 165 to 370 ft. 1/
903	Bertis Ballard	Allens Drilling Co.	1969	440	5	420	Khe	1,170	255.05	Jan. 21, 1969	Sub, E 1	D, S	Open hole completion from 420 to 440 ft. Pump set at 378 ft.
48-101	Mrs. J. H. Conner, Sr.	C. W. Lovell	1947	455	--	--	Kgr, Khe	1,295	69.65 145.4	Apr. 8, 1966 Mar. 18, 1969	C, W	S	Texas Water Development Board observation well. 4/
102	Gerald Cummings	Fowler Drilling Co.	1965	670	5	570	Khe	1,450	350	Dec. 14, 1965	--	S	Open hole completion from 570 to 670 ft. Well filled with gravel from 570 to 670 ft. 1/

* For chemical analysis of water, see Table 5.
1/ For drillers log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I.
4/ For water-level measurements, see Table 4.

CORYELL COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric; R, Radioactive; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
HB-40-25-501	Amerada Petroleum Corp.	N. F. Tate No. 1	1949	4,868	976	E
27-801	Gulf Oil Corp.	V. L. Turner No. 1	1965	6,010	1,062	R
28-403	Shell Oil Co.	Rabbe No. 1	1965	970	970	E
41-501	do.	Saunders No. 1	1965	490	965	E
801	Smith and Leonard	W. D. Bowlin No. 2	1965	3,493	831	E
45-201	General Crude Oil Co.	Ernest Day No. 1	1957	3,035	720	E
49-201	Gulf Oil Corp.	Virgil Lockhart, et al. No. 1	—	—	940	D
801	—	J. K. Summers No. 1	1962	1,550	1,040	R
51-501	N. A. Schwald, Sugarloof Mountain Oil Co.	Thomas Young No. 1	1920	2,895	845	D
41-39-602	Shell Development Co.	Leslie Sheldon No. 1	—	150	1,310	S

Table 3.—Drillers' Logs of Selected Wells

Well HB-40-19-803

Owner: Curtis Watson
Driller: Clarence Erickson

	THICKNESS (FEET)	DEPTH (FEET)
Large hitch rocks	6	6
Clay	2	8
Hard blue rock	72	80
White crystal-like lime	80	160
White lime	90	250
Hard blue rock	30	280
Shell rock and layers shale	15	295
Green gum	11	306
Paluxy sand and water	22	328
Black gum	2	330
Hard lime	4	334

Well HB-40-25-401

Owner: Joe Faubion
Driller: R. A. Adams and Son

Surface soil	2	2
Yellow clay	20	22
Shale and lime	8	30
Sand and water	20	50
Glen Rose lime	57	107

Well HB-40-25-902

Owner: Levita Water Supply Corp.
Driller: James Mathew Adams

Sand - clay	20	20
Lime	176	196
Shale breaks	12	208
Coarse lime sand - water	74	282
Shale	13	295
Lime and shale (green)	65	360
Brown lime	20	380
White lime	15	395
Red bed - green shale	40	435
White sand	10	445

Well HB-40-25-902—Continued

Red bed with green shale	37	482
No record	106	588

Well HB-40-26-101

Owner: R. A. Adams
Driller: R. A. Adams and Son

No record	37	37
Glen Rose lime	303	340
Trinity sand and shale	83	423

Well HB-40-26-102

Owner: Jonesboro Water Supply Corp.
Driller: C. M. Stoner Drilling Co.

Soil	1	1
Rock and clay	9	10
Clay	10	20
Rock	20	40
Sand	5	45
Rock	315	360
Sandy shale and lime	45	405
Sand	15	420
Sandy shale and lime	20	440
Broken sand and sandy shale	70	510
Sand	10	520
Hard red sand rock	20	540
Red bed	25	365
Green sand shale	5	570
Sand	42	612
Gravel	6	618
Yellow shale	4	622

Well HB-40-26-401

Owner: R. L. Campbell
Driller: R. A. Adams and Son

Surface soil and yellow clay	12	12
Blue lime	28	40

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-26-401—Continued		
Black shale	2	42
Lime	23	65
Sand	3	68
Sand - little water	7	75
Water and sand	10	85
Water and sand	5	90
Glen Rose lime	30	120
Well HB-40-26-702		
Owner: E. E. Vermillion Driller: James Mathew Adams		
No record	6	6
Glen Rose lime	239	245
Gray shale	14	259
Glen Rose lime	39	298
Trinity sand	2	300
Brown lime	25	325
Red bed - green shale	19	344
Hard white sand	23	367
Red bed - green shale	9	376
Second Trinity sand - gravel	23	399
Red bed - green shale	7	406
Hard gray sand	10	416
Red bed green shale	13	429
Gray sand - coarse	19	448
Red bed	22	470
Brown sand	15	485
Yellow lime	3	488
Small gravel sand	6	494
Yellow lime	15	509
Well HB-40-27-102		
Owner: Turnersville Water Supply Corp. Driller: J. L. Myers Sons		
Soil	1	1
Blue limestone	303	304
Sand	29	333
Well HB-40-27-102—Continued		
Lime	18	351
Blue lime	248	599
Shale	69	668
Sand	2	670
Lime	59	729
Sand	28	757
Sandy shale	5	762
Sand	12	774
Sandy shale	9	783
Sand	10	793
Red bed	79	872
Shale (broken sand)	40	912
Sand	28	940
Shale	63	1,003
Well HB-40-28-402		
Owner: Joe Tubbs Driller: Frank Baker Place		
No record	110	110
Broken white lime and blue shale	195	305
White lime	25	330
Blue shale and soapstone	50	380
Paluxy sand	10	390
Black shale	2	392
White lime	18	410
Well HB-40-35-103		
Owner: Gatesville State School for Boys Driller: Kenton Preston		
Sandy soil	5	5
Gravel	10	15
Yellow clay	5	20
Blue shale	20	40
Gray shale	40	80
Blue shale	40	120
Gray shale	15	135
Austin chalk	123	258
Blue shale	2	260

Table 3.—Drillers' Logs of Selected Wells in Coryell County--Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-35-103—Continued		
Austin chalk	250	510
Hard sandy shale	10	520
Blue shale	10	530
Austin chalk	55	575
Sand - 4 f.w.	15	590
Shale	8	598
Sand	13	611
Shale	9	620
Red bed	4	624
Gray shale	3	627
Red bed	8	635
Sand shale black	24	659
Gray shale	7	666
Red bed	39	705
Sand and gravel	65	770
Shale	1	771
Well HB-40-35-104		
Owner: Gatesville State School for Boys Driller: Layne Texas Co.		
Shell, gravel, and clay	20	20
Hard gray shale	8	28
Gray shale	12	40
Broken lime soft	53	93
Shale	2	95
Lime	10	105
Soft broken lime	17	122
Lime	13	135
Soft broken lime	60	195
Soft broken lime	5	200
Soft lime and shale	50	250
Broken lime and shale	50	300
Broken lime	55	355
Broken lime and shale	45	400
Broken lime and hard shells	35	435
Broken lime and shale	35	470
Lime, hard shells	20	490
Harder lime	7	497
Broken lime, hard shells	23	520
Broken lime	39	559
Green shale	3	562
Sand (water)	5	567
Hard sandy lime	4	571
Gray shale	9	580
Water sand	27	607
Hard sandstone	3	610
Gray shale	1	611
Shale	3	614
Red bed	23	637
Water sand	13	650
Broken sand	10	660
Red bed	40	700
Water sand	45	745
Gravel and sand	17	762
Well HB-40-35-107		
Owner: Mountainview State School for Boys Driller: J. L. Myers Sons		
Lime	230	230
Broken lime	410	640
Shale	25	665
Sand and shale	25	690
Broken sand and shale	78	768
Shale	20	788
Broken sand and shale	92	880
Shale	18	898
Well HB-40-35-403		
Owner: City of Gatesville Driller: Kenton Preston		
Soil	5	5
Caliche	15	20
Blue shale	40	60
Sand (dry)	10	70

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-35-403—Continued		
Lime (chalky)	430	500
Sand, 10 bph	15	515
Shale (green)	10	525
Red bed	125	650
Red bed (broken)	20	670
Red bed (sandy)	20	690
Red sand	5	695
Sand (water)	10	705
Sand and gravel - water	97	802
Yellow clay - sandy	13	815
Yellow clay	13	828
Well HB-40-35-404		
Owner: City of Gatesville Driller: Layne Texas Co.		
Surface soil	2	2
Gravel	2	4
Yellow clay and caliche	16	20
Blue shale	25	45
Lime	5	50
Sand (water)	6	56
Blue shale	2	58
Sand	12	70
Lime	5	75
Lime (white)	115	190
Sand	20	210
Lime (white)	40	250
Gray shale	100	350
Lime and shale	110	460
Shale and sandy lime	33	493
Sand (water)	32	525
Red bed	85	610
Red shale	20	630
Red bed	34	664
Gray sand	11	675
Gray sand and lime	10	685
Sand and gravel	10	695

	THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-35-404—Continued		
Sand	15	710
Sand, gravel, and shale	20	730
Hard sand and gravel	5	735
Yellow clay	7	742
Blue shale	13	755
Well HB-40-35-405		
Owner: City of Gatesville Driller: R. A. Adams and Son		
Solid clay sand	12	12
Gray lime	348	360
Sandy lime	20	380
Gray lime	5	385
Shale	5	390
Sandy lime	33	423
Sand	14	437
Sandy shale	10	447
Water sand	19	466
Sandy shale	4	470
Red bed (sand and gravel)	70	540
Water sand	10	550
Pink shale	33	583
Water sand	8	591
Sandy shale	39	630
Water sand	23	653
Red bed	17	670
Shale	30	700
Well HB-40-35-409		
Owner: City of Gatesville Driller: Layne Texas Co.		
Rocky lime	20	20
Blue gray shale	169	189
Sandy shale	4	193
Lime and rock	172	365
Brown shale and lime	116	481
Hard shale	40	521
Broken shale	15	536

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-35-409—Continued		
Hard shale and lime	75	611
Broken shale	5	616
Hard shale and lime	14	630
Sand and lime	39	669
Lime layers - sand and gravel	33	702
Hard shale	8	710
Red sandy clay and shale	11	721
Hard shale	2	723
Red sandy clay and lime	50	773
Hard sandy lime	22	795
Lime	5	800
Hard sandy shale	4	804
Hard shale	2	806
Sand, shale layers - gravel	45	851
Hard lime	4	855
Hard sand and gravel	14	869
Hard shale, breaks, sandy shale	47	916
Well HB-40-35-701		
Owner: Fort Gates Water Supply Corp. Driller: J. B. Farquharson		
Yellow clay	18	18
Blue shale	20	38
Chalky lime with blue shale streaks	7	45
Shale with lime streaks	37	82
Blue shale with sand and lime streaks	38	120
Chalky lime with shale, bentonite, and sand streaks	324	444
Chalky lime	113	557
Blue gumbo shale	13	570
Sand	18	588
Red bed	2	590
Sand	20	610
Red bed	8	618
Sand	5	623
Red bed	11	634
Sand	5	639
Red bed	19	658
Sand	8	666
Red bed	31	697
Sand	21	718
Red bed	3	721
Sand	8	729
Red bed	3	732
Sand	20	752
Red bed	4	756
Sand	22	778
Red bed	7	785
Sand	15	800
Blue black shale	21	821
Well HB-40-35-801		
Owner: U.S. Army Driller: Layne Texas Co.		
Surface sand	2	2
Sandy red clay	6	8
Quicksand	10	18
Yellow sand and clay	2	20
Clay and gravel	20	40
Clay and gravel	15	55
Shale	3	58
Blue shale	2	60
Gray lime	65	125
Lime and shale	85	210
Lime and shale	85	295
Lime and shale	65	360
Lime and shale	50	410
Lime and shale	55	465
Lime and shale	25	490
Shells and lime	10	500
Lime	5	505
Lime	10	515
Shell	5	520

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-35-801--Continued		
Lime and shale (top of first Trinity sand)	2	522
Sand	13	535
Sandy lime	15	550
Shale	20	570
Red bed	40	610
Red bed	50	660
Red bed	20	680
Red bed (top second Trinity sand)	5	685
Sand	30	715
Sand	25	740
Broken sand	5	745
Dark shale	10	755
Well HB-40-35-802 Owner: U.S. Army Driller: Layne Texas Co.		
Surface soil	15	15
Gravel and water sand	12	27
Lime	3	30
Sand (dry)	25	55
Broken lime and shale	40	95
White lime	35	130
Shale	35	165
Lime	40	205
Gray shale and shells	20	225
Broken lime	45	270
White lime	45	315
Gray shale	40	355
Broken lime	10	365
Lime	40	405
Shale	10	415
Gray shale and shells	40	455
Gray shale (top of first Trinity sand)	28	483
Soft water sand (bottom of first Trinity sand)	57	540
Red bed	45	585
Red bed	60	645
Water sand	17	662
Hard broken lime	5	667
Gravel and sand (bottom second Trinity sand)	13	680
Red bed	10	690
Well HB-40-35-803 Owner: U.S. Army Driller: Layne Texas Co.		
Surface soil	1	1
Red clay	7	8
Sand and gravel	17	25
Sand and gravel	25	50
Lime and shale	65	115
Lime and shale	40	155
Lime and shale	105	260
Lime and shale	50	310
Lime and shale	40	350
Lime and shale	55	405
Lime and shale	40	445
Lime and shale	40	485
Sandy shale	9	494
Sandy shale (top first Trinity sand)	2	496
Sand	5	501
Sand	6	507
Sand (bottom first Trinity sand)	10	517
Sandy shale	13	530
Red bed	5	535
Red bed	20	555
Red rock and shale	20	575
Red rock and shale	22	597
Red rock and shale	13	610
Red rock and shale	25	635

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-35-803—Continued		
Sand, shale (top second Trinity sand)	30	665
Sand (bottom second Trinity sand)	45	710
Dark shale	11	721
Well HB-40-35-804		
Owner: Jack Fry Driller: Layne Texas Co.		
Surface soil	4	4
Yellow clay and gravel	6	10
Yellow clay	10	20
Blue rock	11	31
Lime and shale	88	119
Broken lime and shale	31	150
Glen Rose sand lime	36	186
Lime and shale	297	483
Sandy lime	15	498
Shale (top first Trinity sand)	6	504
Sand	31	535
Sand and shale (bottom first Trinity sand)	8	543
Red bed	80	623
Sand	17	640
Red bed	20	660
Sandy shale (top second Trinity sand)	20	680
Sand (bottom Trinity sand)	51	731
Broken shale	4	735
Dark shale	10	745
Well HB-40-35-805		
Owner: U.S. Army Driller: Layne Texas Co.		
Surface soil (black)	5	5
Yellow clay	10	15
Yellow clay and gravel	10	25
Blue shale and shells	15	40
Gray lime and shell	85	125
Lime and shale	395	520
Sandy lime	7	527
Sandy shale (top first Trinity sand)	11	538
Sand	2	540
Sand (bottom first Trinity sand)	7	547
Lime	4	551
Red rock	5	556
Red bed	119	675
Hard, sandy shale (top second Trinity sand)	25	700
Sand	48	748
Shale	11	759
Well HB-40-36-602		
Owner: Oglesby Water Supply Corp. Driller: Key Water Well Drilling-Development Co.		
Lime	424	424
Sandy lime	314	738
Sand	382	1,120
Hard lime	100	1,220
Well HB-40-41-601		
Owner: Johnny Woodlief Driller: J. B. Farquharson		
Yellow clay	25	25
Sandy shale and shale streaks	45	70
Sandy lime	3	73
Chalky lime with shale streaks	37	110
Chalky lime	85	195
Black shale	1	196
Chalky lime with very few shale stringers	198	394
Blue shale	4	398
Chalky lime	4	402
Good water sand	14	416
Hard lime and flint rock	27	443

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-41-601—Continued		
Chalky lime	17	460
Blue shale with lime streaks	22	482
Red bed	84	566
Water sand	14	480
Red bed	20	600
Blue shale	4	604
Lime	9	613
Well HB-40-41-702		
Owner: N. C. Storm and Joe Perkins Driller: J. B. Farquharson		
Black dirt	2	2
Yellow clay	6	8
Hard lime	6	14
Chalky lime	11	25
Austin chalk	33	58
Sand	4	62
Austin chalk	168	230
Sand	6	236
Austin chalk	102	338
Trinity sand	14	352
Lime	6	358
Red bed	6	364
Well HB-40-41-903		
Owner: Ernest Pendleton Driller: Fowler Drilling Co.		
Yellow clay	15	15
White rock	20	35
Gray limestone	40	75
Gray mud	15	90
Gray limestone	125	215
Gray mud	7	222
Gray limestone	33	255
Hard, brown rock	5	260
Sand	11	271

	THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-43-201		
Owner: U.S. Army Driller: Layne Texas Co.		
Yellow clay and rock	60	60
Gray lime and shell	266	326
Hard gray lime	34	360
Gray lime	65	425
Gray lime and breaks of shale	45	470
Sandy lime (top of first Trinity sand)	35	505
Sand	3	508
Sand	30	538
Sand (bottom of first Trinity sand)	14	552
Shale	13	565
Red rock	10	575
Shale	25	600
Shale	5	605
Sand	5	610
Red bed	30	640
Blue shale	25	665
Red rock	5	670
Hard shale	5	675
Red rock (top of second Trinity sand)	18	693
Sand	8	701
Gravel sand	30	731
Shale and broken sand	4	735
Sand (bottom of second Trinity sand)	13	748
Blue shale	9	757
Dark shale	3	760
Dark shale	5	765
Well HB-40-43-202		
Owner: U.S. Army Driller: Layne Texas Co.		
Yellow clay	14	14
Hard lime	35	49

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-43-202—Continued		
Blue shale	27	76
Lime	64	140
Broken lime	30	170
Shale and lime shells	20	190
Broken sand and shale	8	198
Sand and shells	17	215
Broken lime	45	260
White lime	15	275
Broken lime	45	320
Blue shale	15	335
Broken lime and shale	30	365
Lime	31	396
Shale	4	400
Lime	25	425
Sandy shale and shells	30	455
Blue shale	5	460
Broken lime	20	480
Shale	10	490
Lime	25	515
Broken lime	10	525
Shale and lime	23	548
Blue shale (top of first Trinity sand)	4	552
Water sand	14	566
Sand and gravel (bottom of first Trinity sand)	34	600
Gray shale	5	605
Red bed	40	645
Lime	13	658
Broken lime and shale	7	665
Blue shale	5	670
Red gumbo	25	695
Red bed	10	705
Blue shale	14	719
Red bed	9	728
Water sand and gravel (second Trinity sand)	34	762
Red bed	10	772
Well HB-40-43-203		
Owner: U.S. Army Driller: Layne Texas Co.		
Yellow shale	20	20
Blue shale	53	73
Lime	4	77
Blue shale	13	90
Broken lime	15	105
Blue shale	10	115
Lime	54	169
Lime and shale	13	182
Lime	6	188
Broken lime	42	230
Hard lime	30	260
Broken lime	21	281
Lime and shale	29	310
Lime	139	449
Hard lime	28	477
Lime	17	494
Hard lime	6	500
Broken lime	15	515
Lime	41	556
Broken lime	15	571
Lime	2	573
Gray shale	6	579
Gray sand	4	583
Shale	2	585
Blue shale	5	590
Broken sand	6	596
Sand and gravel	49	645
Red, sticky shale	3	648
Red shale	5	653
Blue shale	10	663
Gray shale	2	665
Red shale	15	680

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

Well HB-40-43-203—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Blue shale	10	690
Red bed	22	712
Red shale	44	756
Red and blue shale	9	765
Sand, second Trinity	20	785
Red bed	10	795

Well HB-40-43-204

Owner: U.S. Army
Driller: Layne Texas Co.

Red and yellow clay	20	20
Lime and blue shale	55	75
Gray lime and shale	90	165
Lime and shale	120	285
Gray lime and shale	60	345
Gray lime and shale	15	360
Lime	25	385
Lime and shale	148	533
Shale (top of first Trinity sand)	15	548
Red bed	7	555
Sandy shale	10	565
Red rock	10	575
Shale	20	595
Sandy shale	5	600
Red bed	35	635
Red bed (hole caving)	15	650
Red bed	35	685
Sand (top of second Trinity sand)	27	712
Shale	1	713
Red rock	12	725
Sand	23	748
Sandy lime	5	753
Sand	5	758

Well HB-40-43-205

Owner: U.S. Army
Driller: Layne Texas Co.

Sandy soil	2	2
Sandy clay	5	7

Well HB-40-43-205—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Quicksand	23	30
Blue rock	10	40
Lime and shale	460	500
Shell	10	510
Lime and shale (top of first Trinity sand)	7	517
Sand	8	525
Broken sand	5	530
Sand	3	533
Lime	4	537
Red rock and lime	133	670
Broken sand	2	672
Sandy shale (top of second Trinity sand)	3	675
Sand	55	730
Shale (break in sand)	5	735
Coarse sand	10	745
Sandy shale	5	750
Dark shale	5	755

Well HB-40-43-206

Owner: U.S. Army
Driller: Layne Texas Co.

Yellow clay and gravel	30	30
Blue shale	30	60
Sand	15	75
Lime	12	87
Sandy lime and shale	43	130
Broken lime	20	150
Blue shale	20	170
Sand	5	175
Sandy shale	7	182
Sandy shale and lime	8	190
Lime (soft)	45	235
Gray shale	20	255
Blue shale and shells	5	260
Gray shale	10	270

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-43-206—Continued		
Sand	5	275
Gray shale	33	308
Hard lime	7	315
Broken lime	25	340
Hard lime	7	347
Hard lime	23	370
Sandy shale and shells	32	402
Lime	8	410
Broken lime and shale	15	425
Broken lime	35	460
Gray shale	5	465
Lime	10	475
Sandy shale and shells	30	505
Broken sand and shale	30	535
Sand (water)	27	562
Sand	15	577
Red bed	28	605
Lime	5	610
Blue shale	5	615
Blue shale	15	630
Red bed	10	640
Red bed	18	658
Blue shale	5	663
Red bed	5	668
Blue shale	14	682
Sand and shale	8	690
Soft water sand	15	705
Sand and gravel	15	720
Brown shale	15	735
Well HB-40-43-207		
Owner: U.S. Army Driller: Layne Texas Co.		
Surface soil	2	2
Yellow clay	5	7
Yellow lime	18	25
Blue rock	35	60

	THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-43-207—Continued		
Gray lime and shale	40	100
Gray lime and shale	130	230
Lime and shale	265	495
Sandy lime	10	505
Sandy shale (top of first Trinity sand)	13	518
Sand	32	550
Sand, coarse (bottom of first Trinity sand)	12	562
Shale	3	565
Bed rock and shale	55	620
Shale (top of second Trinity sand)	40	660
Sand	5	665
Broken sand	25	690
Sand	35	725
Sand, coarse (bottom of second Trinity sand)	10	735
Shale	10	745
Well HB-40-43-603		
Owner: Flat Water Supply Corp. Driller: Hervey Meadows and Son Well Driller		
Soil	3	3
Rock and chalk	17	20
Blue rock	40	60
Lime	55	115
Shale mixed with lime	380	495
Glen Rose lime	293	788
Hensell sand	85	873
Red bed - peat gravel	22	895
Red bed, peat gravel, quartzite, pyrites, and shale	75	970
Hosston sand	20	990
Shale	3	993

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

Well HB-40-44-502

Owner: Temco Feed Mills
Driller: R. A. Adams and Son

	THICKNESS (FEET)	DEPTH (FEET)
Soil and chunk rock	3	3
Gray lime	42	45
Dark shale	5	50
Gray lime	140	190
Shale	8	198
Lime	73	271
White lime	109	380
Shale	24	404
Glen Rose lime	86	490
Shale	1	491
Lime	101	592
Shale	2	594
Lime	181	775
Shale	20	795
Lime	63	858
Blue sandy shale	8	866
Sand	6	872
Sandy lime	6	878
Sand and gravel	25	903
Black shale	2	905

Well HB-40-49-201

Owner: Gay Lockhart
Driller: Gulf Oil Corp.
(Complete log not shown)

	THICKNESS (FEET)	DEPTH (FEET)
No record	260	260
Lime	20	280
Lime and sand	20	300
Lime	20	320
Lime and sand	30	350
Lime and shale	50	400
Lime, sand, and shale	10	410
Lime, sand, and shale	10	420
Lime and sand	10	430
Lime and sand	10	440
Lime and sand	10	450

Well HB-40-49-201—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Lime, shale, and sand	10	460
Limestone, shale, and sand	10	470
Limestone, shale, and sand	10	480
Shale, lime, and sand	10	490
Shale, lime, and sand	10	500
No record	10	510
Hard shale and sand	10	520
Sand, lime, and shale	10	530
Sand, lime, and shale	10	540

Well HB-40-49-403

Owner: G. H. Cassens
Driller: Fowler Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Yellow clay	20	20
Blue shale and fine sand	50	70
Gray rock	10	80
Gray lime	55	135
Blue clay	7	142
Gray lime	48	190
Gray clay	10	200
Gray lime	30	230
Blue clay	10	240
Gray lime	75	315
Blue rock	20	335
Brown limestone (water)	15	350
Blue mud	5	355
White mud and sand	33	388
Hard brown rock	15	403
Red bed (shale and sand)	93	496

Well HB-40-51-501

Owner: Thomas Young
Driller: Sugarloaf Mountain Oil Co.
(Complete log not shown)

	THICKNESS (FEET)	DEPTH (FEET)
Yellow clay	28	28
Lime	8	36

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

Well HB-40-51-501—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Blue slate	14	50
White lime	10	60
Blue slate	40	100
White lime	5	105
Blue slate	295	400
Lime	12	412
White slate	58	470
White lime	12	482
White slate	18	500
White lime, water	55	555
Hard lime	9	564
White slate	36	600
Red slate	10	610
White slate	20	630
White sand 630 ft little water	6	636
White shale 636 ft	6	642
White sand, little water	8	650
Red shale	10	660
White lime	5	665
Blue shale	5	670
Lime	5	675
Red shale	10	685
Lime	15	700
Blue shale	10	710
Hard lime	5	715
White paste	2	717
Hard lime	13	730
White lime	28	758
Red shale	3	761
Gray lime	3	764
Yellow shale	8	772
Sand	6	778
Lime	6	784
Gray slate	5	789
Lime	6	795
Brown lime	35	830
Gray lime	8	838

Well HB-40-57-302

Owner: City of Copperas Cove
Driller: Layne Texas Co.

	THICKNESS (FEET)	DEPTH (FEET)
Shale and rock	15	15
Yellow shale - hard layers	11	26
Shale and shells	220	246
Gray shale and hard layers lime rock	17	263
Gray shale	22	285
Gray shale and layers hard lime	35	320
Shale	11	331
Shale and lime	15	346
Lime and shale	121	467
Lime	17	484
Shale and lime	6	490
Shale and thin layers sand	12	502
Sandy lime and shale	4	506
Lime and shale	18	524
Sandy lime and shale	14	538
Hard shale and lime	16	554
Hard lime and pink shale	34	588
Gray shale (soft)	14	602
Lime and shale (hard)	25	627
Sandy lime	8	635
Lime and shale	11	646

Well HB-40-57-303

Owner: Sam Millsap
Driller: J. L. Myers Sons

Caliche	19	19
Shale with lime streaks	22	41
Broken lime (caliche)	17	58
Shale and lime chalk	13	71
Broken lime	5	76

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-57-303—Continued		
Shale and lime streaks	34	110
Sand and lime shale	8	118
Lime shale (broken)	20	138
Shale and streaks of lime	51	189
Lime shale, gray	29	218
Shale, gray	7	225
Limy shale	13	238
Gray shale	7	245
Limy shale	13	258
Shale and lime streaks	112	370
Limy shale	25	395
Shale, gray	7	402
Shale and lime	16	418
Shale, gray	8	445
Limy shale	16	461
Sandy lime	8	469
Lime	14	483
Lime, broken and shale	15	498
Sandy lime	14	512
Shale soft white	1	513
Sandy lime	6	519
Sandy shale	4	523
Lime, soft	2	525
White sandy shale	12	537
Shale red	2	539
White sandy shale	7	546
Sandy shale and sand	8	554
Red shale	3	557
Sandy shale red	6	563
Shale red	10	573
Well HB-40-57-305		
Owner: Willie Groth Driller: Smart Drilling and Supply		
Yellow	25	25
Gummy blue	8	33
Solid blue	12	45
Gray, pretty hard	65	110
Soft sand rock (cavey)	10	120
Hard, gray shale	1	121
Hard, brown lime (some water)	352	473
Hard	57	530
White soft	20	550
Soft pink	11	561
Red	5	566
Gray dark shale	4	570
Well HB-41-39-303		
Owner: L. S. Passmore Driller: J. L. Myers Sons		
Rock	14	14
Clay	9	23
Rock and shale	17	40
Rock	5	45
Sandy shale	25	70
Lime and shale	50	120
Shale and rock	49	169
Chalk rock	131	300
Shale and rock	35	335
Mixed shale	15	350
Lime rock	10	360
Lime	66	426
Sandy shale	4	430
Sand	5	435
Sandy shale	9	444
Shale	11	455
Sandy lime	23	478
Rock and lime	28	506
Rock	4	510
Shale	22	532
Well HB-41-40-202		
Owner: Floyd Elam Driller: Tatum Drilling Co.		
Caliche	18	18
Blue shale	24	42

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well HB-41-40-202—Continued		
Brown water sand	10	52
Gray shale	43	95
Well HB-41-40-901		
Owner: R. A. Manning Driller: Edwin Dyson		
Clay - rock	120	120
Paluxy sand	10	130
Gray lime	250	380
Sandy shale	10	390
Gray lime	25	415
Sandy shale	5	420
Hard, gray lime	15	435
Blue shale	5	440

	THICKNESS (FEET)	DEPTH (FEET)
Well HB-41-40-902—Continued		
Lime	34	474
Red shale	28	502
Brown lime	3	505
Red shale	37	542
Brown lime	3	545
Red shale	7	552
Sand	13	565
White lime	5	570
Well HB-41-48-102		
Owner: Gerald Cummings Driller: Fowler Drilling Co.		
Fine sand and blue mud	570	570
Brown limestone	100	670

CORYELL COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

Well HB-40-19-803

Owner: Curtis Watson

DATE	WATER LEVEL
Apr. 14, 1965	274
Mar. 18, 1968	279.6
Mar. 19, 1969	278.58

Well HB-40-25-401

Owner: Joe Faubion

DATE	WATER LEVEL
May 1962	45
Mar. 14, 1968	56.00
Mar. 19, 1969	56.24

Well HB-40-26-102

Owner: Jonesboro Water Supply Corp.

DATE	WATER LEVEL
Mar. 14, 1965	335
Mar. 30, 1966	297.2
Oct. 1966	305.0
Mar. 16, 1967	316.62
May 2, 1967	322.91
June 29, 1967	323.96
Aug. 2, 1967	324.94
Oct. 4, 1967	327.46
Nov. 6, 1967	328.12
Dec. 1, 1967	327.98
Jan. 4, 1968	328.18
Feb. 13, 1968	327.89
Mar. 14, 1968	328.19
Mar. 19, 1969	338.85

Well HB-40-26-401

Owner: R. L. Campbell

DATE	WATER LEVEL
Mar. 1963	70
Mar. 14, 1968	79.73
Mar. 19, 1969	81.20

Well HB-40-28-402

Owner: Joe Tubbs

DATE	WATER LEVEL
Apr. 6, 1964	200
Mar. 18, 1968	244.5
Sept. 19, 1968	245.0

Well HB-40-35-103

Owner: Gatesville State School for Boys

DATE	WATER LEVEL
July 8, 1952	290
Apr. 5, 1966	374.06
Mar. 16, 1967	389.98
Mar. 14, 1968	390.99
Mar. 18, 1969	387

Well HB-40-35-403

Owner: City of Gatesville

DATE	WATER LEVEL
Oct. 2, 1964	298
Apr. 5, 1966	255.3
Mar. 22, 1967	342.0
Mar. 15, 1968	338.60

Well HB-40-35-701

Owner: Fort Gates Water Supply Corp.

DATE	WATER LEVEL
July 21, 1964	390
Mar. 10, 1966	344.5
Dec. 29, 1966	357.37
Feb. 7, 1967	360.25
Mar. 10, 1967	359.0
May 2, 1967	362.80
June 28, 1967	382.40
Sept. 12, 1967	397.40
Oct. 4, 1967	388.67
Nov. 6, 1967	381.86
Feb. 13, 1968	372.84
Mar. 14, 1968	374.42
Mar. 19, 1969	371.88

Well HB-40-35-804

Owner: Jack Fry

DATE	WATER LEVEL
Jan. 10, 1943	101
Mar. 11, 1966	252.70
Aug. 25, 1966	265.71
Sept. 29, 1966	277.07
Oct. 31, 1966	274.14
Dec. 5, 1966	258.05
Dec. 29, 1966	260.07
Feb. 7, 1967	262.46
Mar. 16, 1967	258.92
May 2, 1967	262.07
June 5, 1967	263.98
June 28, 1967	271.25
Aug. 1, 1967	281.75
Sept. 12, 1967	282.95
Oct. 4, 1967	285.87
Nov. 8, 1967	282.02
Dec. 1, 1967	278.77
Jan. 5, 1968	279.67
Feb. 13, 1968	280.13
Mar. 19, 1969	271.04

Well HB-40-41-601

Owner: Johnny Woodlief

DATE	WATER LEVEL
June 1963	170
Mar. 15, 1968	208.50
Mar. 18, 1969	207.30

Well HB-40-41-702

Owner: N. C. Storm and Joe Perkins

DATE	WATER LEVEL
Aug. 1963	250
Mar. 14, 1968	183.20
Mar. 18, 1969	187.8

Table 4.—Water Levels in Selected Wells in Coryell County—Continued

DATE	WATER LEVEL
Well HB-40-43-603	
Owner: Flat Water Supply Corp.	
July 31, 1965	390
Mar. 10, 1966	379.2
Mar. 16, 1967	389.07
Mar. 15, 1968	402.03
Mar. 19, 1969	403.14
Well HB-40-44-901	
Owner: G. E. Wolfe	
1890	24
Mar. 10, 1966	260.6
Mar. 16, 1967	285.53
Mar. 15, 1968	220.15
Well HB-40-45-402	
Owner: Texas Parks and Wildlife Department	
July 15, 1966	201.23
Mar. 16, 1967	251.49
May 2, 1967	251.95
June 5, 1967	252.14
June 28, 1967	252.87
Aug. 1, 1967	256.73
Sept. 12, 1967	258.68
Oct. 4, 1967	258.91
Well HB-40-45-402—Continued	
Nov. 8, 1967	258.75
Dec. 1, 1967	258.24
Jan. 5, 1968	257.81
Feb. 13, 1968	257.73
Mar. 15, 1968	257.63
Mar. 20, 1969	259.73
Well HB-40-57-303	
Owner: Sam Millsap	
Apr. 10, 1951	410
Aug. 14, 1967	316.40
Mar. 15, 1968	309.20
Mar. 18, 1969	310.42
Well HB-41-39-303	
Owner: L. S. Passmore	
Apr. 11, 1967	337.0
Mar. 13, 1968	335.9
Mar. 19, 1969	336.0
Well HB-41-39-304	
Owner: J. Y. Hamilton	
Aug. 26, 1966	325.60
Dec. 29, 1966	324.05
Feb. 7, 1967	322.50
May 2, 1967	323.58
Well HB-41-39-304—Continued	
June 5, 1967	324.24
June 28, 1967	330.05
Aug. 1, 1967	335.07
Oct. 5, 1967	326.53
Nov. 13, 1967	324.87
Dec. 1, 1967	324.92
Jan. 5, 1968	323.52
Feb. 7, 1968	322.60
Mar. 12, 1968	321.42
Mar. 19, 1969	324.07
Well HB-41-40-803	
Owner: Mary Caddel	
Apr. 8, 1966	177.35
Mar. 10, 1967	199.47
Mar. 12, 1968	177.13
Mar. 17, 1969	188.42
Well HB-41-48-101	
Owner: Mrs. J. H. Conner, Sr.	
Apr. 8, 1966	69.65
Sept. 26, 1966	51.70
Apr. 10, 1967	156.3
Mar. 12, 1968	94.6
Mar. 18, 1969	145.4

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS REPORTED	DISSOLVED SOLIDS RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
08-40-19-803	334	Sept. 19, 1968	Kp	9	0.92	6	12	428	--	640	336	82	8.4	< 0.4	--	1,200	--	64	94	1,820	8.2	23.3
1/ 901	792	Apr. 19, 1961	Khe	8.1	--	16	15	* 517	--	444	756	43	5.2	.0	--	1,580	--	102	92	2,330	7.9	22.5
2/ 25-902	460 474	June 13, 1968	Kho	--	9.8	6	3	404	--	403	272	163	4.4	.4	--	1,300	1,061	30	97	2,093	9.0	33.2
2/ 902	547 560	do.	do.	--	.1	4.1	2.9	406.2	--	390.8	224.7	214.3	1.5	1.2	--	1,274.6	1,047	21.6	98	1,600	8.4	37.6
902	360 444 417	July 21, 1968	Khe	--	.64	10	4	391	--	472	276	149	4.9	< .4	--	1,310	1,067	42	95	--	8.4	26.2
1/ 26-101	423	Mar. 9, 1960	do.	--	--	16	15	* 296	--	430	226	104	3.1	3	--	884	--	102	86	1,420	7.8	12.8
102	622	Mar. 24, 1965	Kho	--	.14	7	2	308	--	464	116	145	1	< .4	--	1,040	807	25	97	1,520	8.3	29.1
102	622	Apr. 23, 1966	do.	--	< .02	89	4	374	--	378	112	415	1.3	< .4	--	1,370	1,182	238	77	2,574	7.4	10.5
1/ 801	200	Jan. 30, 1961	Kp, Kgr	12	--	22	28	* 166	--	383	149	41	1.4	.0	--	620	607	170	68	980	7.6	5.6
27-102	1,003	Nov. 19, 1963	Khe, Kho	--	.82	4	7	262	--	445	78	98	1.2	< .4	--	900	670	39	94	1,240	8.5	18.4
28-402	410	Sept. 19, 1968	Kp	8	--	44	35	740	--	540	1,140	179	6.1	< .4	--	2,420	--	254	86	3,330	7.8	20.2
1/ 35-101	728	Aug. 1942	Ktp	13	.05	7.9	4.8	* 400	--	451	251	191	2.2	1	--	1,100	--	39	96	--	8.1	28.1
103	771	July 9, 1952	Khe, Kho	21	6	18	29	* 285	--	483	283	181	2.8	1.3	--	1,180	1,064	141	79	--	8.4	9.7
104	762	do.	do.	6	.15	19	17	* 359	--	445	269	181	2.6	< .4	--	1,110	1,073	118	87	--	8.4	14.3
107	898	Dec. 6, 1964	Kho	--	< .02	5	3	367	--	447	183	176	2.3	3	--	1,190	959	27	97	1,804	8.1	31.9
401	680	May 25, 1942	Ktp	32	.16	16	6	* 423	--	415	210	277	2.2	< .4	--	1,154	1,171	65	93	--	8.3	22.7
1/ 401	680	June 3, 1946	do.	10	.05	7.8	4.4	* 457	--	448	211	293	3	4	--	1,210	--	38	96	2,070	8.0	32.1
401	680	July 2, 1953	do.	25	.04	21	5	415	--	458	207	273	2	< .4	--	1,183	--	73	93	--	7.9	21.2
401	680	Apr. 24, 1964	do.	--	.04	13	8	468	--	467	382	213	.9	< .4	--	1,550	1,315	67	94	2,519	8.3	25.1
1/ 402	680	Aug. 15, 1942	do.	--	--	7.8	4.7	* 455	--	447	234	296	--	.0	--	1,227	--	39	96	--	8.0	31.9
1/ 402	680	June 3, 1946	do.	3	.09	8.4	4.6	* 460	--	442	233	286	4	2.2	--	1,220	--	40	96	2,120	7.6	31.8
402	680	July 2, 1953	do.	18	.04	24	4	413	--	458	206	273	2	< .4	--	1,182	1,165	77	92	--	7.9	20.4
402	680	Apr. 24, 1964	do.	--	.04	20	14	435	--	442	357	234	.7	1.5	--	1,510	1,279	107	90	2,442	8.0	18.2

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
HE-40-35-402	680	Oct. 12, 1965	Ktp	--	0.18	16	9	464	--	467	384	201	4.6	< 0.4	--	1,550	1,309	75	93	2,496	8.0	22.9
403	828	July 2, 1953	Kho	14	.56	27	11	383	--	439	249	231	1.8	< .4	--	1,215	1,134	113	88	--	8.0	15.6
403	828	Nov. 6, 1957	do.	--	.08	7	4	425	--	460	188	300	2	< .4	--	1,140	1,152	35	96	1,900	7.7	31.9
1/ 404	755	July 21, 1955	do.	14	.12	9	4	458	--	415	202	320	--	--	--	1,481	1,211	39	96	--	8.4	32.1
404	755	Apr. 24, 1964	do.	--	.04	8	5	435	--	428	201	288	.4	< .4	--	1,370	1,148	39	96	2,244	8.0	29.6
405	700	do.	Ktp	--	< .02	7	4	435	--	428	202	298	.4	1.5	--	1,380	1,158	33	97	2,277	8.0	32.6
407	700	Apr. 27, 1940	do.	16	.14	12	8	* 432	--	380	216	280	2.6	3	--	1,175	1,157	64	94	--	8.2	23.8
2/ 701	821	Aug. 3, 1964	Kho	--	.14	7.2	4.4	453.4	--	400.2	214	308	.5	--	--	1,408.8	1,184	36	96	--	8.4	32.9
701	821	Oct. 21, 1964	do.	--	.08	8	4	435	--	426	195	298	2	< .4	--	1,370	1,151	37	96	2,222	8.3	31.0
1/ 801	755	June 25, 1943	Khe, Kho	34	.22	7.2	5.3	* 412	--	462	230	222	2	.0	--	1,140	--	40	96	1,870	8.5	28.4
1/ 801	755	Sept. 9, 1955	do.	14	.03	7.2	3.9	* 402	--	438	236	210	2	2.5	--	1,090	--	34	96	1,820	7.5	30.2
1/ 802	690	May 1943	Khe, Kho	12	.10	12	6.9	* 487	--	461	298	298	2.8	1.5	--	1,345	--	58	95	--	8.5	27.5
1/ 802	690	Sept. 9, 1955	do.	14	.05	13	7.2	* 483	--	445	309	295	3	4	--	1,350	--	62	94	2,250	7.6	26.6
1/ 803	721	May 1943	do.	12	.08	10	5.9	* 469	--	456	256	300	2	.5	--	1,280	--	50	95	--	8.5	29.1
1/ 803	721	July 10, 1952	do.	14	.16	8.8	5.5	* 465	--	450	240	305	2	.0	--	1,260	--	44	96	2,210	8.5	30.2
1/ 804	745	July 2, 1943	do.	26	.05	8.5	4.9	* 428	--	454	219	262	1.6	.0	--	1,174	--	41	96	1,930	8.3	29.1
1/ 805	759	Feb. 22, 1943	do.	15	.08	8.2	4.7	* 419	--	432	215	259	2.2	1	--	1,137	--	40	96	--	8.3	28.9
1/ 36-601	1,170	Apr. 30, 1942	Ktp	11	.04	4.2	2.2	* 303	--	477	95	129	1.3	.0	--	781	--	20	97	--	8.2	29.3
601	1,170	May 19, 1942	do.	18	.32	14	6	* 318	--	427	138	144	1.2	< .4	--	849	--	60	92	--	8.4	18.0
1/ 601	1,170	June 3, 1946	do.	14	.20	8.1	7.3	* 429	--	493	300	166	2.2	1.5	--	1,170	--	50	95	2,020	8.5	26.3
601	1,170	Feb. 5, 1961	do.	--	.07	7	4	345	--	467	195	129	1.4	< .4	--	974	912	35	96	1,624	8.2	25.9
601	1,170	Jan. 27, 1964	do.	--	.13	4	6	359	--	472	209	146	1.8	< .4	--	1,200	958	35	96	1,870	8.2	26.5
601	1,170	Feb. 17, 1965	do.	12	--	8	4	361	--	482	197	149	2.1	< .4	--	970	--	39	96	1,610	7.8	25.7
3/ 602	1,220	Jan. 13, 1948	Kpe, Kho	--	.2	4.8	.5	312.5	--	439.2	87.9	140	1.2	1.6	--	1,014.3	765	14	98	1,230	8.7	36.7
41-201	455	Oct. 8, 1968	Khe, Kpe	10	1.92	50	48	590	--	399	490	570	2.7	< .4	--	1,960	--	322	80	2,890	7.8	14.3
903	271	Oct. 7, 1968	Kgr, Khe	12	.40	32	31	900	--	409	630	830	3.7	< .4	--	2,640	--	206	90	3,830	7.9	27.2
1/ 43-201	765	May 1943	Khe, Kho	11	.05	7.8	3.9	* 430	--	470	200	262	2.8	1	--	1,150	--	36	96	--	8.3	31.2
1/ 201	765	July 10, 1952	do.	13	.23	8.3	5.6	* 454	--	442	245	285	3.2	4	--	1,240	--	44	96	2,150	8.2	29.9
1/ 202	772	Mar. 10, 1943	do.	8	.02	10	5.6	* 460	--	446	246	298	2.6	.5	--	1,250	--	48	95	--	--	29.0
1/ 203	795	May 1943	do.	9.5	.09	11	6	* 480	--	456	272	305	2.8	.8	--	1,312	--	52	95	--	8.5	29.0
1/ 204	758	May 6, 1943	do.	10	.42	13	8	* 506	--	439	293	350	2.2	.0	--	1,399	--	66	94	--	7.9	27.2
1/ 204	758	Sept. 9, 1955	do.	14	.07	9.6	5.3	* 460	--	415	214	338	1.4	4	--	1,250	--	46	96	2,140	7.5	29.4
1/ 205	755	June 4, 1943	do.	9.5	.06	10	5.8	* 437	--	446	239	270	1.8	0.0	--	1,193	--	49	95	--	8.5	27.2
1/ 205	755	Sept. 9, 1955	do.	13	.04	9.6	5.5	* 444	--	436	265	262	2	3.5	--	1,220	--	46	95	2,040	7.6	28.0

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
1/ HB-40-43-206	735	Mar. 4, 1943	Khe, Kho	13	0.03	8.1	4.5	* 429	--	468	205	260	2.8	0.5	--	1,153	--	38	96	--	--	30.1
1/ 206	735	Sept. 9, 1955	do.	14	.03	7.8	4.4	* 454	--	451	239	280	2.8	3.5	--	1,230	--	38	96	2,080	7.7	31.9
1/ 207	745	July 2, 1943	do.	14	.06	9.9	5.3	* 458	--	450	221	309	2.2	1	--	1,242	--	46	96	2,080	8.4	28.9
4/ 603	993	Aug. 22, 1965	do.	--	0	21	11	540	--	471	450	295	--	--	--	1,600	1,549	52	92	--	7.9	23.8
603	993	Sept. 29, 1965	Kho	--	.09	8	3	354	--	445	193	183	1.8	2	--	1,190	964	34	96	1,826	8.3	27.0
603	993	Mar. 27, 1966	do.	--	.18	8	3	374	--	418	192	192	2	< .4	--	1,200	978	34	96	1,870	8.7	28.5
1/ 44-501	900	Jan. 24, 1961	Kgr, Khe	7.9	.46	20	33	* 637	--	1,070	500	114	4.9	.0	--	1,840	--	186	88	2,830	8.0	20.4
1/ 801	900	do.	do.	9.6	.14	42	55	* 908	--	512	1,510	211	5.6	1.5	--	2,990	--	331	86	4,140	7.7	21.7
1/ 901	990	do.	do.	8.9	.01	34	24	* 509	--	428	704	134	4.5	7.4	--	1,640	--	184	86	2,450	8.0	16.3
4/ 902	1,126	Oct. 25, 1968	Kho	--	.0	9	2	335	--	425	178	150	.7	--	--	900	884	23	96	--	8.2	26.5
1/ 45-401	975	Feb. 26, 1942	Kgr, Khe	--	.11	42	58	* 1,357	--	610	2,156	390	--	.2	--	4,300	--	344	90	--	--	31.9
402	1,030	July 13, 1966	Khe	--	.20	8	3	346	--	475	186	144	2.2	< .4	--	1,160	924	34	96	--	8.3	26.4
5/ 402	1,030	May 1968	do.	--	.13	--	--	--	--	--	115	171	2.5	.4	--	1,200	--	--	--	--	--	--
49-403	496	Oct. 8, 1968	Khe, Kpe	14	.10	46	37	580	--	389	560	468	3.1	.5	--	1,900	--	266	83	2,750	7.8	15.5
57-301	657	Oct. 17, 1941	Ktp	27	.8	38	31	* 759	--	433	641	604	3	< .4	--	2,262	2,317	223	88	--	7.9	22.2
301	657	May 1942	do.	60	.80	42	13	* 765	--	350	623	586	3	--	--	2,287	2,265	160	91	--	8.2	26.4
3/ 302	646	Aug. 4, 1944	do.	8	.3	33.2	21	* 756.2	--	407.5	680.1	545	--	--	--	2,492.6	2,244	169.5	91	--	7.6	25.3
1/ 302	646	June 3, 1946	do.	14	.43	27	7.6	* 806	--	380	700	530	4.4	1.8	--	2,280	--	98	95	3,760	7.8	35.4
304	525	Apr. 8, 1953	Khe, Kpe	40	2.1	174	88	783	--	351	626	1,001	3.4	< .4	--	3,055	2,891	796	68	--	7.3	12.1
304	525	Apr. 1953	do.	40	.8	42	13	* 765	--	435	623	586	3	--	--	3,055	2,287	160	91	--	7.3	26.4
305	570	Oct. 7, 1968	Kgr, Ktp	12	< .02	46	38	510	--	366	660	290	4.5	5	--	1,750	--	270	81	2,430	7.8	13.6
1/ 41-39-301	522	June 4, 1946	Kho	65	.52	16	10	* 424	--	352	334	246	1.8	5	--	1,280	--	81	92	2,020	7.9	20.5
1/ 302	450	do.	Ktp	10	1.5	54	35	* 131	--	332	194	50	1.6	3.5	--	644	--	279	43	1,040	7.6	3.4
304	535	July 2, 1968	do.	9	--	18	15	458	--	339	319	327	1.9	< .4	--	1,320	--	105	90	2,150	7.4	19.3
40-803	372	Sept. 4, 1968	Khe	9	--	66	47	375	--	337	510	264	2.6	2.5	--	1,440	--	357	70	2,200	7.5	8.6

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

1/ U. S. Geological Survey Laboratory
2/ Pope Testing Laboratory
3/ Curtis Laboratories
4/ Trinity Testing
5/ Laboratory Unknown

HAMILTON COUNTY

BOSQUE COUNTY

LAMPASAS COUNTY

MC LENNAN COUNTY

BELL COUNTY

41/40

4140

JONESBORO

TURNERSVILLE

GATESVILLE

LEON

OGLESBY

COPPERAS COVE

BELTON LAKE

Middle Bosque River

EXPLANATION

Public supply well

Industrial well

Irrigation well

Domestic or livestock well

Oil or gas well

Unused or abandoned well

Solid circle indicates flowing well

501 Line above well number indicates chemical analysis given in Table 5

0 1 2 3 4 5 MILES

Location of Selected Water, Oil, and Gas Wells in Coryell County

EASTLAND COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestone; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Kht, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* JD-30-48-201	G. M. Waters	-- Fagan	1900	29	42	29	Ka	1,738	6 8.04	May 17, 1937 Mar. 12, 1969	N	N	Dug well with rock wall from 29 ft to surface. Reported yield 10 gpm. Texas Water Development Board observation well. 3/
* 701	W. T. Rutherford	--	1910	35	42	35	do.	1,758	10 10.79	Mar. 17, 1937 Mar. 12, 1969	N	N	Dug well with rock wall from 35 ft to surface. Reported yield 10 gpm. Texas Water Development Board observation well. 3/
901	H. D. Jackson	Jack Leonard Drilling Co.	1966	58	12	58	do.	1,720	31.76	Mar. 12, 1969	Sub, E 3	Irr	Completed from 52 to 58 ft. Pump set at 55 ft. Measured yield 37.5 gpm. Power and yield test on Aug. 18, 1967. Gravel packed. Texas Water Development Board observation well. 3/ 4/
902	do.	do.	1966	63	12	63	do.	1,725	26	Feb. 12, 1966	Sub, E 5	Irr	Completed from 56 to 63 ft. Pumping level 53 ft at 270 gpm on Feb. 12, 1966. Pump set at 60 ft. Reported yield 225 gpm. Measured yield 110 gpm. Power and yield test on Aug. 18, 1967. Gravel packed. 1/ 4/
56-103	W. R. Holcomb	J and L Drilling Co.	1967	65	8	65	do.	1,762	--	--	Sub, E 2	Irr	Slotted from 30 to 48 ft. Measured yield 25.6 gpm. Power and yield test at sprinkler on Aug. 18, 1967. Gravel packed. 1/ 4/
401	Smith and Anderson	Timmie Johnson	1957	90	8	90	do.	--	25	Jan. 10, 1961	T, E 3	Irr	Perforated. Pump set at 85 ft. Measured yield 40.6 gpm. Power and yield test on Aug. 15, 1966. 4/
402	do.	do.	1959	95	8	95	do.	--	25	do.	T, E	Irr	- -
403	do.	do.	1959	90	8	90	do.	--	25	do.	T, E	Irr	Reported yield 95 gpm.
407	W. F. Lilley	do.	1964	111	6	111	do.	1,878	43.21 39.66	July 8, 1965 Mar. 12, 1969	Sub, E 3	Irr	Completed from 71 to 111 ft. Gravel packed. Texas Water Development Board observation well. 3/
408	do.	do.	1964	140	7	140	Ka	--	33.19	July 8, 1965	Sub, E 5	Irr	Completed from 45 to 85 ft. Pump set at 110 ft. Gravel packed.
* 409	do.	do.	1964	138	7	138	do.	--	71.01	do.	Sub, E 3	Irr	Completed from 93 to 138 ft. Gravel packed. Temp. 70°F.
411	Claud Moore	Curtis Alford Drilling and Well Service	--	110	7	110	do.	--	42	do.	T, E 1	D	Completed from 60 to 110 ft. Gravel packed.
* 501	Cowan Hutton	Timmie Johnson	1958	70	7	70	do.	--	22	Jan. 19, 1961	T, E 3	Irr	Completed from 40 to 70 ft. Reported yield 100 gpm. Temp. 66°F.
502	do.	do.	1959	70	8	70	do.	1,744	22 26.36	Jan. 19, 1961 Mar. 12, 1969	N	N	Completed from 40 to 70 ft. Reported yield 100 gpm. Texas Water Development Board observation well. 3/
503	do.	Curtis Alford Drilling and Well Service	1956	70	7	70	do.	--	--	--	T, E 3	Irr	Perforated. Reported yield 100 gpm.

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING DIAMETER (in.)	CASING DEPTH (ft)	WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	WATER LEVEL DATE OF MEASUREMENT	METHOD OF LIFT	USE OF WATER	REMARKS
	JD-30-56-504	Cowan Hutton	Timmie Johnson	1959	70	7	70	Ka	--	22	Jan. 19, 1961	T, E 3	Irr	Completed from 40 to 70 ft. Reported yield 100 gpm.
	506	do.	do.	--	70	8	70	do.	--	25 28.58	July 7, 1965 Apr. 7, 1966	T, E 3	Irr	Completed from 35 to 70 ft. Pump set at 65 ft. Gravel packed.
	507	do.	do.	1963	72	8	72	do.	--	--	--	T, E 3	Irr	Completed from 47 to 72 ft. Pump set at 65 ft. Gravel packed.
	508	do.	do.	--	112	8	112	do.	1,780	82 63.48	July 7, 1965 Apr. 7, 1966	Sub, E 5	Irr	Completed from 85 to 112 ft. Pump set at 95 ft. Measured yield 57.5 gpm. Power and yield test at sprinkler on Aug. 16, 1966. Gravel packed. 4/
*	509	Oscar Schaefer	Jack Leonard Drilling Co.	1964	56	12	56	do.	--	28.23	July 7, 1965	Sub, E 5	Irr	Completed from 32 to 52 ft. Pump set at 56 ft. Reported yield 150 gpm. Gravel packed. Temp. 70°F.
	510	do.	do.	1964	59	12	59	do.	1,739	30.41 18.89	July 7, 1965 Mar. 12, 1969	Sub, E 2	Irr	Completed from 32 to 52 ft. Reported yield 150 gpm. Gravel packed. Texas Water Development Board observation well. 1/ 3/
	511	Horace King	do.	1964	39	12	39	do.	--	19	July 8, 1965	T, E 10	Irr	Completed from 21 to 39 ft. Pump set at 39 ft. Gravel packed.
*	512	do.	do.	1964	42	12	42	do.	--	15	do.	R, E 1/2	Irr	Completed from 22 to 42 ft. Reported yield 15 gpm. Gravel packed. Temp. 70°F.
	513	do.	do.	1964	46	12	46	do.	--	39.73	do.	R, E 1/2	Irr	Completed from 26 to 46 ft. Reported yield 20 gpm. Gravel packed.
*	514	do.	do.	1964	48	12	48	do.	--	36.11		R, E 3/4	Irr	Completed from 28 to 48 ft. Gravel packed. Temp. 70°F.
	515	Frank Snodgrass, Jr.	Curtis Alford Drilling and Well Service	1963	60	--	--	do.	--	--	--	Sub, E 1	Irr.	--
	801	R. L. Vestal	--	1920	60	--	--	do.	--	44	May 19, 1937	N	N	Dug well. Well plugged and abandoned.
*	901	A. L. Buchanan	Curtis Alford Drilling and Well Service	1954	65	5	65	do.	--	20	Jan. 10, 1961	T, E	Irr	Reported yield 65 gpm. Gravel packed. Temp. 68°F.
	902	do.	do.	1954	64	5	64	do.	--	20	do.	T, E 2-1/2	Irr	Completed from 35 to 64 ft. Gravel packed.
	64-101	Marion Harvey	John Cooch	1897	48	--	--	do.	--	5 23.84	May 13, 1937 Apr. 7, 1966	N	N	Dug well. Well abandoned.
*	202	Elton B. Burgett	Curtis Alford Drilling and Well Service	1963	42	5	42	do.	--	--	--	J, E 1/2	D	Perforated from 21 to 42 ft. Pump set at 32 ft. Gravel packed. Temp. 64°F.
*	301	H. Erwin	do.	1956	80	6	80	do.	--	--	--	T, E 2	Irr	Completed from 60 to 80 ft. Reported yield 65 gpm. Measured yield 35.8 gpm. Power and yield test on Aug. 17, 1966. Gravel packed. Temp. 67°F. 4/
	302	do.	do.	1956	80	6	80	do.	--	--	--	T, E 2	Irr	Slotted from 60 to 80 ft. Reported yield 65 gpm. Measured yield 47 gpm. Power and yield test on Aug. 17, 1966. Gravel packed. 4/
	305	H. V. Burk	Timmie Johnson	1965	91	7	91	do.	--	--	--	Sub, E 2	Irr	Completed from 46 to 91 ft.
	306	H. Erwin	Curtis Alford Drilling and Well Service	1965	60	12	60	do.	--	--	--	Sub, E 3	Irr	Perforated from 54 to 60 ft. Measured yield 37.5 gpm. Power and yield test on Aug. 17, 1966. Gravel packed. 4/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	JD-30-64-307	S. C. Mixon	Timmie Johnson	1965	157	7	157	Ka	--	--	--	Sub, E 5	Irr	Slotted from 127 to 157 ft. Pump set at 150 ft. Measured yield 27.8 gpm. Power and yield test at sprinkler on Aug. 17, 1967. Gravel packed. 4/
*	608	J. W. Stover	--	--	41	36	41	do.	--	21.33	Mar. 14, 1969	J, H 1	D	Dug well with rock wall from 41 ft to surface. Temp. 59°F.
	31-35-601	Morris Campbell	Robert Lee-Bob-Barnhill	1965	50	8	50	do.	1,510	18.31	Oct. 12, 1965	R, E 5	Irr	Completed from 17 to 37 ft. Reported yield 145 gpm. Measured yield 10.4 gpm. Power and yield test on July 17, 1967. Gravel packed. 1/ 4/
	602	do.	do.	1965	50	8	50	do.	1,510	17.58	do.	R, E 2	Irr	Completed from 3 to 30 ft. Reported yield 120 gpm Gravel packed. 1/
	603	do.	do.	--	50	5	50	do.	1,508	18.9	do.	--	Irr	--
*	604	do.	do.	1965	50	6	50	do.	1,501	18.56 18.80	Oct. 12, 1965 Mar. 13, 1969	--	Irr	Completed from 3 to 38 ft. Gravel packed. Temp. 70°F. Texas Water Development Board observation well. 1/ 2/ 3/
*	36-702	Bob Rebels	do.	1965	80	7	80	do.	1,457	16 14.86	Sept. 9, 1965 Mar. 13, 1969	Sub, E 1	Irr	Completed from 19 to 53 ft. Reported yield 20 gpm. Gravel packed. Temp. 68°F. Texas Water Development Board observation well. 1/ 3/
	703	do.	W. F. Smith Drilling Co.	1967	65	7	65	do.	1,490	--	--	Sub, E 5	Irr	Slotted from 25 to 50 ft. Pump set at 63 ft. Reported yield 50 gpm. Power and yield test on July 12, 1967. Gravel packed. 4/
	704	do.	do.	1967	65	8 7	-- 65	do.	1,490	--	--	Sub, E 5	Irr	Do.
	705	do.	do.	1967	65	8 7	-- 65	do.	1,493	--	--	Sub, E 5	Irr	Do.
	706	Dalton Covington	Robert Lee-Bob-Barnhill	1965	70	8	70	do.	1,452	18.0	Oct. 21, 1965	Sub, E 1-1/2	Irr	Reported yield 70 gpm. Haydite packed.
	707	do.	do.	1965	70	8	70	do.	1,452	14.98	do.	Sub, E 1	Irr	Reported yield 45 gpm. Haydite packed.
	708	do.	do.	1965	70	8	70	do.	1,450	11.17	do.	Sub, E 1-1/2	Irr	Haydite packed.
*	41-701	C. Livingston	Sam Hitt	1897	187	5	187	Ka, P	1,665	7 5.24	May 17, 1937 Mar. 5, 1969	T, E	D, S	Temp. 64°F. Texas Water Development Board observation well. 3/
	42-402	J. D. Griffin	--	--	90	5	--	P	1,585	57	Apr. 27, 1937	N	N	Well caved and abandoned.
	403	do.	H. B. Norton	1949	111	5	111	do.	1,588	51.42 50.70	Apr. 6, 1966 Mar. 14, 1967	R, E	D, S	Pump set at 90 ft. Reported yield 2 gpm.
	504	W. H. Hoffmann	W. H. Hoffmann	1963	57	10	57	Ka	1,595	26.50	July 28, 1965	Sub, E	Irr	Pump set at 55 ft. Haydite packed.
	505	do.	do.	1962	150	6	150	do.	1,601	22.18 19.39	Apr. 6, 1966 Mar. 12, 1969	Sub, E	Irr	Completed from 35 to 49 and 72 to 83 ft. Texas Water Development Board observation well. 1/ 3/
	506	do.	do.	1962	136	6	136	do.	1,608	37.2	July 28, 1965	Sub, E	Irr	Haydite packed.
	507	do.	do.	1964	202	10	--	Ka, P	1,614	--	--	Sub, E	Irr	Open hole completion. Haydite packed. 1/
	508	R. G. Lyerla	W. F. Smith Drilling Co.	1967	43	6	43	Ka	1,560	9.54	Jan. 21, 1969	Sub, E 1-1/2	Irr	Pump set at 40 ft. Estimated yield 30 gpm. Power and yield test on Aug. 18, 1966. Gravel packed. 1/ 4/
	509	do.	do.	1967	31	6	31	do.	1,562	--	--	Sub, E 1	Irr	Pump set at 28 ft. Power and yield test on Aug. 18, 1966. Gravel packed. 1/ 4/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* JD-31-42-510	Mrs. J. S. Turner	--	1890	36	36	36	Ka	--	18.80	Mar. 5, 1969	N	N	Dug well with rock wall from 36 ft to surface. Temp. 65°F. Owner reported too salty to use since 1940.
805	Clyde Barbee	Watson Drilling Co.	1965	80	8	80	do.	1,598	30.22	Oct. 20, 1965	Sub, E 1-1/2	Irr	Completed from 50 to 80 ft. Pump set at 62 ft. Reported yield 65 gpm. Gravel packed.
* 806	do.	do.	1965	65	8	65	do.	1,609	31.79 29.20	Apr. 6, 1966 Mar. 12, 1969	Sub, E 1-1/2	Irr	Completed from 35 to 65 ft. Pump set at 60 ft. Reported yield 60 gpm. Gravel packed. Temp. 67°F. Texas Water Development Board observation well. 3/
807	do.	do.	1965	65	8	65	do.	1,598	30.9	Oct. 20, 1965	Sub, E 1-1/2	Irr	Completed from 35 to 65 ft. Pump set at 60 ft. Reported yield 80 gpm.
808	do.	do.	1965	70	8	70	do.	1,598	36.07	do.	Sub, E 1-1/2	Irr	Completed from 40 to 70 ft. Pump set at 60 ft. Reported yield 40 gpm. Gravel packed.
901	Rollo Tinkler	Robert Lee-Bob-Barnhill	1965	85	8	85	do.	1,511	27.22 28.54	Oct. 20, 1965 Apr. 6, 1966	Sub, E 2	Irr	Completed from 35 to 65 ft. Pump set at 70 ft. Reported yield 15 gpm. Measured yield 34.3 gpm. Power and yield test on Aug. 19, 1966, Gravel packed. 1/ 4/
* 902	do.	do.	1965	92	5	92	do.	1,511	28.42 28.33 29.77	Oct. 20, 1965 Apr. 6, 1966 Mar. 14, 1967	Sub, E 3	Irr	Measured yield 64.8 gpm. Power and yield test on Aug. 19, 1966. Gravel packed. Temp. 67°F. 1/ 4/
903	J. F. Guy	J. T. Carson	1966	91	12 8	35 91	do.	1,510	15	Feb. 2, 1966	Sub, E 5	Irr	Slotted from 35 to 85 ft. Pump set at 80 ft. Reported yield 70 gpm. Power and yield test on Aug. 19, 1966. 1/ 4/
904	do.	do.	1966	72	12 8	20 72	do.	1,502	10	Feb. 9, 1966	Sub, E 7-1/2	Irr	Slotted from 21 to 62 ft. Pump set at 60 ft. Reported yield 145 gpm. Power and yield test on Aug. 19, 1966. 1/ 4/
905	do.	do.	1966	68	12 8	17 68	do.	1,502	10	Feb. 20, 1966	Sub, E 7-1/2	Irr	Slotted from 17 to 58 ft. Pump set at 50 ft. Reported yield 175 gpm. Power and yield test on Aug. 19, 1966. 1/ 4/
906	do.	do.	1966	82	12	18	do.	1,505	10	Feb. 21, 1966	Sub, E 5	Irr	Open hole completion from 18 to 82 ft. Reported yield 50 gpm. Power and yield test on Aug. 19, 1966. 1/ 4/
907	do.	do.	1966	65	12 10	16 65	do.	1,497	10	Feb. 24, 1966	Sub, E 7-1/2	Irr	Slotted from 16 to 53 ft. Reported yield 120 gpm. Power and yield test on Aug. 19, 1966. 1/ 4/
908	do.	do.	1966	70	12 8	20 70	do.	1,497	10	Mar. 9, 1966	--	N	Completed from 23 to 58 ft. Reported yield 50 gpm. 1/
43-301	Alameda School	Frank Mabary	1912	22.8	36	22.8	P	1,368	13 15.49 15.78	Apr. 16, 1937 Apr. 1, 1966 Mar. 14, 1967	N	N	Dug well with brick wall from 22.8 ft to surface. Reported yield 10 gpm. School and well abandoned.
404	C. N. Adams	J. T. Carson	1965	100	8	100	Ka	1,525	--	--	Sub, E 3	Irr	Completed from 35 to 86 ft. Pump set at 80 ft. Reported yield 70 gpm. Gravel packed. 1/
702	do.	do.	1965	75	8	73	do.	1,484	16.63 15.13	Sept. 27, 1968 Mar. 12, 1969	Sub, E 5	Irr	Completed from 31 to 56 ft. Pump set at 70 ft. Gravel packed. Well drilled to 150 ft and plugged back to 75 ft. Texas Water Development Board observation well. 1/ 3/
703	do.	do.	1965	76	8	76	do.	1,483	16.89	July 24, 1965	--	Irr	Completed from 31 to 54 ft. Haydite packed. 1/
704	do.	do.	1965	88	8	88	do.	1,508	--	--	Sub, E 3	Irr	Completed from 31 to 84 ft. Pump set at 80 ft. Reported yield 70 gpm. Gravel packed. 1/
801	H. L. Scitern	--	1953	18	--	--	do.	1,400	--	--	T, E	Irr	Dug well.

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* JD-31-43-803	R. W. Eaves	-- Smith	1951	90	6	90	Ka	1,417	3.56 6.23	July 22, 1965 Mar. 12, 1969	Sub, E 1-1/2	Irr	Pump set at 83 ft. Reported yield 30 gpm. Gravel packed. Temp. 70°F. Texas Water Development Board observation well. 3/
804	Durwood Burgess	Curtis Alford Drilling and Well Service	1966	80	8	80	do.	1,440	--	--	Sub, E 3	Irr	Slotted from 35 to 75 ft. Pump set at 76 ft. Reported yield 30 gpm. Power and yield test on July 10, 1967. Gravel packed. 1/ 4/
805	do.	do.	1966	82	8	82	do.	1,432	--	--	Sub, E 3	Irr	Completed from 35 to 77 ft. Pump set at 77 ft. Reported yield 40 gpm. Power and yield test on July 10, 1967. Gravel packed. 4/
806	R. W. Eaves	Robert Lee-Bob-Barnhill	1966	75	8	65	do.	1,450	--	--	Sub, E 1/2	Irr	Perforated from 20 to 55 ft. Measured yield 20 gpm. Power and yield test on July 10, 1967. Gravel packed. 4/
807	do.	do.	1966	75	8	65	do.	1,443	--	--	Sub, E 1-1/2	Irr	Perforated from 30 to 60 ft. Measured yield 45.1 gpm. Power and yield test on July 10, 1967. Gravel packed. 4/
808	do.	do.	1966	70	8	65	do.	1,450	--	--	Sub, E 1-1/2	Irr	Perforated from 30 to 60 ft. Measured yield 34.9 gpm. Power and yield test on July 10, 1967. Gravel packed. 4/
903	Norman Parks	N. L. Box Drilling Contractor	1965	77	--	--	Ktp	1,390	16	May 7, 1965	N	N	Well plugged and abandoned. 1/
904	do.	do.	1965	75	8	75	do.	1,390	3.95	July 22, 1965	Sub, E 7-1/2	Irr	Completed from 17 to 71 ft. Reported yield 100 gpm. Power and yield test on July 24, 1967. Gravel packed. Well drilled to 237 ft and plugged back to 75 ft. 1/ 4/
44-106	M. Love	Watson Drilling Co.	1966	50	8	50	Ka	1,425	--	--	Sub, E 1	Irr	Slotted from 20 to 50 ft. Power and yield test on Aug. 16, 1967. Gravel packed. 4/
107	do.	W. F. Smith Drilling Co.	1965	74	8	74	do.	1,425	--	--	Sub, E 1/2	Irr	Slotted from 20 to 74 ft. Power and yield test on Aug. 16, 1967. Gravel packed. 4/
108	do.	do.	1965	50	8	50	do.	1,418	--	--	Sub, E 1/2	Irr	Slotted from 20 to 50 ft. Power and yield test on Aug. 16, 1967. Gravel packed. 4/
109	do.	Watson Drilling Co.	1965	50	8	50	do.	1,430	--	--	Sub, E 1	Irr	Do.
110	do.	W. F. Smith Drilling Co.	1966	50	8	50	do.	1,425	--	--	Sub, E 1	Irr	Do.
111	do.	Watson Drilling Co.	1966	50	8	50	do.	1,425	--	--	Sub, E 3	Irr	Do.
112	do.	W. F. Smith Drilling Co.	1965	50	8	50	do.	1,422	--	--	Sub, E 3	Irr	Do.
113	Jack Rogers	Watson Drilling Co.	1967	80	8	80	do.	1,435	55	Feb. 1967	Sub, E 3	Irr	Slotted from 60 to 80 ft. Pump set at 75 ft. Reported yield 120 gpm. Measured yield 23.6 gpm. Power and yield test on Aug. 10, 1967. Gravel packed. 4/
114	do.	do.	1967	75	8	75	do.	1,432	50	Mar. 1967	Sub, E 1-1/2	Irr	Slotted from 55 to 75 ft. Pump set at 70 ft. Reported yield 60 gpm. Measured yield 33.7 gpm. Power and yield test on Aug. 10, 1967. Gravel packed. 4/
115	do.	do.	1967	75	8	75	do.	1,440	50	--	Sub, E 1-1/2	Irr	Slotted from 55 to 75 ft. Pump set at 70 ft. Measured yield 29.5 gpm. Power and yield test on Aug. 10, 1967. Gravel packed. 4/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* JD-31-44-401	W. A. Logan	Ervin Ryan	1906	37	42	10	Ka	1,392	23 22.03	June 17, 1937 Mar. 13, 1969	N	N	Dug well with brick wall from 10 ft to surface. Open hole from 10 to 37 ft. Reported yield 10 gpm. Texas Water Development Board observation well. 4/
403	J. M. Yancey	Watson Drilling Co.	1965	46	8	46	do.	1,388	12	Feb. 1965	Sub, E 2	Irr	Slotted from 26 to 46 ft. Pump set at 41 ft. Reported yield 55 gpm. Measured yield 41.2 gpm. Power and yield test on July 17, 1967. Gravel packed. 4/
404	do.	B. G. Watson	1965	50	8	50	do.	1,386	10	June 1965	Sub, E 2	Irr	Slotted from 30 to 50 ft. Pump set at 43 ft. Reported yield 50 gpm. Measured yield 36.7 gpm. Power and yield test on July 17, 1967. Gravel packed. 4/
405	do.	do.	1965	42	8	42	do.	1,385	10	do.	Sub, E 2	Irr	Slotted from 22 to 42 ft. Pump set at 37 ft. Measured yield 55 gpm. Power and yield test on July 17, 1967. Gravel packed. 4/
406	do.	do.	1967	42	8	42	do.	1,386	10	Feb. 1967	Sub, E 1-1/2	Irr	Slotted from 22 to 42 ft. Pump set at 37 ft. Reported yield 50 gpm. Gravel packed.
407	Roy Squyres and J. D. Rogers	--	1962	60	5	60	do.	1,410	--	--	Sub, E 1	Irr	Completed from 40 to 60 ft. Reported yield 25 gpm. Power and yield test on Aug. 14, 1967. 4/
408	do.	-- McDougal	1967	75	8	75	do.	1,408	--	--	Sub, E 7-1/2	Irr	Slotted from 55 to 75 ft. Reported yield 50 gpm. Power and yield test on Aug. 14, 1967. Gravel packed. 4/
409	do.	do.	1967	60	8	60	do.	1,410	--	--	Sub, E 3	Irr	Slotted from 40 to 60 ft. Power and yield test on Aug. 14, 1967. Gravel packed. 4/
* 501	Sam Powers	N. L. Box Drilling Contractor	1958	125	8	125	Ktp	1,405	--	--	T, G	Irr	Completed from 55 to 125 ft. Pump set at 115 ft. Reported yield 88 gpm. Temp. 70°F.
502	do.	Terry Drilling and Supply co.	1950	115	8	115	do.	1,413	38.97 36.17	Apr. 6, 1966 Mar. 13, 1969	T, E 5	Irr	Completed from 40 to 115 ft. Pump set at 115 ft. Reported yield 75 gpm. Gravel packed. Texas Water Development Board observation well. 3/
503	do.	Robert Lee-Bob-Barnhill	1964	109	7	109	do.	1,395	19.47	July 21, 1965	Sub, E 2	Irr	Completed from 35 to 109 ft. Measured yield 59.6 gpm. Power and yield test on July 18, 1967. Gravel packed. 4/
504	do.	do.	1964	100	8	100	do.	1,393	19.61	do.	Sub, E	Irr	Completed from 35 to 100 ft. Gravel packed.
505	James Ryan	Watson Drilling Co.	1966	104	8	104	do.	1,425	--	--	Sub, E 7-1/2	Irr	Slotted from 65 to 99 ft. Pump set at 97 ft. Measured yield 87.6 gpm. Power and yield test at sprinkler on July 18, 1967. 4/
506	C. L. Hismith	C. L. Highsmith	--	85	6	85	do.	1,430	--	--	Sub, E 2	Irr	Slotted from 55 to 85 ft. Measured yield 44 gpm. Power and yield test on July 18, 1967. Gravel packed. 4/
507	do.	do.	--	84	7	84	do.	1,418	--	--	Sub, E 5	Irr	Slotted from 54 to 84 ft. Measured yield 66 gpm. Power and yield test on July 18, 1967. Gravel packed. 4/
* 601	Felix Sparks	N. L. Box Drilling Contractor	1958	88	7	88	do.	1,382	30	Jan. 17, 1961	T, E	Irr	Slotted. Pumping level 65 ft at 78 gpm in 1958. Pump set at 60 ft. Gravel packed. Well drilled to 187 ft and plugged back to 88 ft. 1/
602	R. O. Buckley	B. G. Watson	1967	110	8	110	do.	1,397	55	July 1967	Sub, E 5	Irr	Slotted from 55 to 100 ft. Pump set at 100 ft. Estimated yield 80 gpm. Power and yield test on Aug. 14, 1967. Gravel packed. 4/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
JD-31-44-603	R. O. Buckley	B. G. Watson	1967	100	8	100	Ktp	1,403	55	July 1967	Sub, E 5	Irr	Slotted from 55 to 85 ft. Pump set at 90 ft. Power and yield test on Aug. 14, 1967. Gravel packed. 4/
801	Magnolia Petroleum Co.	--	1924	283	13 7	30 283	Ktp, P	1,365	--	--	T, E 5	Ind	Slotted from 40 to 66 and 237 to 249 ft. Gravel packed. 1/
* 802	L. E. Clark	Guy Hooper	1950	80	8 5	--	Ktp	1,349	30 31.97	Jan. 24, 1961 Mar. 13, 1969	J, E 2	P	Perforated from 55 to 80 ft. Pump set at 72 ft. Texas Water Development Board observation well. 3/
804	L. E. Sharp	Lightfoot and McCrum	1965	79	8	79	do.	1,368	48.52 48.76	Oct. 12, 1965 Mar. 13, 1969	Sub, E 2	Irr	Slotted from 15 to 19 and 35 to 71 ft. Measured yield 21.3 gpm. Power and yield test on July 11, 1967. Gravel packed. Texas Water Development Board observation well. 1/ 3/ 4/
* 805	do.	do.	1965	80	8	80	do.	1,368	50.23 50.69	Oct. 12, 1965 Apr. 1, 1966	Sub, E 2	Irr	Slotted from 16 to 19 and 35 to 71 ft. Measured yield 34.7 gpm. Power and yield test on July 11, 1967. Gravel packed. Temp. 67°F. 1/ 4/
806	R. L. Lewis	B. G. Watson	1967	80	8	80	do.	1,375	40	June 1967	Sub, E 3	Irr	Slotted from 40 to 80 ft. Pump set at 65 ft. Measured yield 40 gpm. Power and yield test on July 18, 1967. Gravel packed. 4/
807	do.	Watson Drilling Co.	1967	69	8	69	do.	1,378	--	--	Sub, E 2	Irr	Slotted. Reported yield 35 gpm. Gravel packed.
808	do.	do.	1967	70	8	70	do.	1,385	--	--	Sub, E 2	Irr	Slotted. Pump set at 70 ft. Power and yield test on Aug. 15, 1967. Gravel packed. 4/
809	do.	do.	1967	70	8	70	do.	1,385	--	--	Sub, E 2	Irr	Slotted. Pump set at 75 ft. Power and yield test on Aug. 15, 1967. Gravel packed. 4/
810	do.	do.	1967	70	8	70	do.	1,385	--	--	Sub, E 2	Irr	Slotted. Pump set at 70 ft. Power and yield test on Aug. 15, 1967. Gravel packed. 4/
812	E. L. Clark	--	--	--	--	--	do.	1,343	--	--	--	P	--
51-101	T. M. Birdsong III	J. T. Carson	1966	80	8	80	Ka	--	--	--	Sub, E 3	Irr	Slotted from 60 to 80 ft. Pump set at 75 ft. Power and yield test on Aug. 9, 1967. 4/
102	do.	Sanders Drilling Co.	1966	60	8	60	do.	--	--	--	Sub, E 3	Irr	Slotted from 40 to 60 ft. Pump set at 55 ft. Power and yield test on Aug. 9, 1967. Gravel packed. 4/
103	do.	Curtis Alford Drilling and Well Service	1966	82	8	82	do.	--	--	--	Sub, E 1	Irr	Perforated from 52 to 64 ft. Reported yield 60 gpm. Power and yield test on Aug. 9, 1967. Gravel packed. 1/ 4/
104	do.	do.	1966	81	8	81	do.	--	--	--	Sub, E 3/4	Irr	Perforated from 41 to 60 ft. Reported yield 60 gpm. Power and yield test on Aug. 9, 1967. Gravel packed. 1/ 4/
105	-- Preston	Robert Lee-Bob-Barnhill	1965	50	7	50	do.	1,470	17 15.58	June 17, 1965 Oct. 20, 1965	Sub, E	Irr	Completed from 17 to 40 ft. Reported yield 40 gpm. Gravel packed. 1/
201	Q. D. Fuller	Steward Drilling Co.	1953	100	7	100	do.	--	35	July 22, 1965	T, E 3-1/2	Irr	Completed from 50 to 90 ft. Pump set at 85 ft. Reported yield 65 gpm. Gravel packed.
202	do.	do.	1953	100	7	100	do.	--	35	do.	T, E 3-1/2	Irr	Completed from 55 to 90 ft. Pump set at 85 ft. Reported yield 65 gpm. Gravel packed.
* 203	do.	do.	1953	105	7	105	do.	--	35	do.	T, E 3-1/2	Irr	Completed from 55 to 100 ft. Pump set at 95 ft. Reported yield 85 gpm. Gravel packed. Temp. 69°F.
* 204	City of Gorman	H. B. Norton	1948	108	10	108	Ktp	--	68	Nov. 17, 1959	T, S 7-1/2	P	Perforated from 70 to 108 ft. Pump set at 102 ft. Reported yield 66 gpm.

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING DIAMETER (in.)	CASING DEPTH (ft)	WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	WATER LEVEL DATE OF MEASUREMENT	METHOD OF LIFT	USE OF WATER	REMARKS
* JD-31-51-205	City of Gorman	H. B. Norton	1947	113	10	113	Ktp	1,468	66	Nov. 17, 1959	N	N	Perforated from 70 to 113 ft. Pumping level 90 ft at 55 gpm on Nov. 17, 1959. Well abandoned. 1/
* 206	do.	Charles Gordon	1944	100	6	--	do.	--	--	--	N	N	Well abandoned.
* 207	do.	--	1914	84	72	--	do.	--	--	--	T, E	P	Dug well. Reported yield 30 gpm.
* 208	do.	Bradford Brothers	1920	120	10	--	do.	--	--	--	T, E	P	Reported yield 30 gpm.
* 209	do.	do.	1924	106	8	--	do.	--	--	--	T, E	P	Do.
* 210	do.	do.	1924	106	8	--	do.	--	40	1945	C, E	N	Reported yield 25 gpm.
211	O. R. Buchanan	Curtis Alford Drilling and Well Service	1964	90	7	90	do.	1,448	42 44.91	July 22, 1965 Mar. 12, 1969	Sub, E	Irr	Completed from 50 to 83 ft. Reported yield 170 gpm. Haydite packed. Texas Water Development Board observation well. 1/ 2/ 3/
212	do.	Robert Lee-Bob-Barnhill	1965	100	8	100	do.	--	40 41.24	July 22, 1965 July 23, 1965	Sub, E	Irr	Completed from 58 to 88 ft. Reported yield 340 gpm. Gravel packed. 1/
213	Charles Underwood	do.	1964	70	10	50	do.	--	17	July 23, 1965	T, E	Irr	Open hole completion from 50 to 70 ft. Pump set at 55 ft. Reported yield 105 gpm. Gravel packed.
* 214	do.	do.	1965	68	10	52	do.	--	37.0	do.	Sub, E 5	Irr	Open hole completion from 52 to 68 ft. Pump set at 55 ft. Gravel packed. Temp. 69°F. 1/
* 215	Lizzie Jackson	Texas Irrigation Sales, Inc.	1965	96	7	96	Ka	1,434	24.61 26.44	Apr. 6, 1966 Mar. 12, 1969	Sub, E 7-1/2	Irr	Perforated from 56 to 96 ft. Reported yield 125 gpm. Gravel packed. Temp. 74°F. Texas Water Development Board observation well. 1/ 3/
216	do.	do.	1965	138	7	138	do.	--	54.22	July 26, 1965	Sub, E 7-1/2	Irr	Reported yield 90 gpm. Gravel packed
* 217	Bill Andrys	Curtis Alford Drilling and Well Service	1964	100	7	75	do.	--	29.15	July 21, 1965	Sub, E	Irr	Completed from 20 to 75 ft. Gravel packed. Temp. 70°F.
* 218	do.	Robert Lee-Bob-Barnhill	1965	60	10	60	do.	--	17.75	do.	Sub, E 7-1/2	Irr	Completed from 20 to 60 ft. Pump set at 50 ft. Reported yield 150 gpm. Gravel packed. Temp. 65°F.
219	do.	do.	1965	84	7	84	do.	--	--	--	Sub, E 5	Irr	Pump set at 72 ft. Reported yield 75 gpm.
220	do.	do.	1965	100	10	84	do.	--	--	--	Sub, E 5	Irr	Completed from 20 to 72 ft. Reported yield 100 gpm. Gravel packed.
222	City of Gorman	C. E. Reynolds	1965	98	8	98	Ktp	--	--	--	T, E	P	Slotted from 54 to 96 ft. Gravel packed. 1/
* 223	do.	Roy Parker	1962	106	--	--	do.	--	--	--	T, E 7-1/2	P	--
224	R. F. Hodge	Curtis Alford Drilling and Well Service	1966	89	8	89	do.	--	--	--	Sub, E 7-1/2	Irr	Pump set at 84 ft. Measured yield 56 gpm. Power and yield test at sprinkler on July 11, 1967. Gravel packed. 1/ 4/
225	Q. D. Fuller	do.	1966	110	10	110	Ka	--	65	Mar. 5, 1966	T, E 3	Irr	Slotted from 65 to 100 ft. Pump set at 95 ft. Measured yield 47.1 gpm. Power and yield test on July 10, 1967. 4/
226	do.	do.	1967	110	10	110	do.	--	65	Feb. 25, 1967	Sub, E 3	Irr	Slotted from 65 to 100 ft. Pump set at 95 ft. Measured yield 61.1 gpm. Power and yield test on July 10, 1967. Gravel packed. 4/
* 227	Doy Reynolds	N. L. Box Drilling Contractor	1966	90	8	90	do.	--	36.20	Oct. 15, 1968	Sub, E 7-1/2	Irr	Slotted from 50 to 90 ft. Estimated yield 200 gpm. Temp. 69°F.

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
JD-31-51-302	E. L. Dennis	Roy Parker	1962	95	8	90	Ktp	--	54.05	July 23, 1965	N	N	Completed from 75 to 90 ft. Reported yield 100 gpm. Gravel packed.
303	Oscar Howard	do.	1958	30	8	30	do.	--	18	July 26, 1965	J, E 2	Irr	Completed from 20 to 30 ft. Gravel packed.
304	do.	do.	1959	75	7	75	do.	--	18	do.	J, E 1-1/2	Irr	Completed from 20 to 30 ft. Pump set at 30 ft. Gravel packed.
305	do.	do.	1960	35	7	35	do.	--	18	do.	C, W	Irr	Completed from 25 to 35 ft. Gravel packed.
306	Norman Parks	N. L. Box Drilling Contractor	1965	269	8	92	do.	1,383	6.87 6.45	Apr. 1, 1966 Mar. 13, 1969	Sub, E 7-1/2	Irr	Completed from 18 to 58 and 66 to 90 ft. Reported yield 150 gpm. Power and yield test on July 24, 1967. Gravel packed. Texas Water Development Board observation well. 1/ 3/ 4/
307	do.	do.	1965	89	8	67	do.	--	21.60	July 22, 1965	Sub, E 3	Irr	Completed from 16 to 63 ft. Reported yield 65 gpm. Power and yield test on July 24, 1967. Gravel packed. 1/ 4/
52-102	Ray Borgess	--	--	--	--	--	do.	--	--	--	Sub, E 3/4	Irr	Pump set at 65 ft. Power and yield test on July 10, 1967. 4/
103	do.	Ardean Kimmell Irrigation Service	1965	95	8	75	do.	--	11	Feb. 12, 1966	Sub, E 1/2	Irr	Perforated from 20 to 75 ft. Pump set at 65 ft. Power and yield test on July 10, 1969. Gravel packed. Cemented from 66 ft to surface. 1/ 4/
104	do.	do.	1965	69	8	58	do.	--	11	do.	Sub, E 1	Irr	Slotted from 18 to 50 ft. Power yield test on July 10, 1967. Gravel packed. 1/ 4/
* 57-101	City of Rising Star	--	1922	70	10	--	Ka	--	20	1946	T, E 7-1/2	P	Reported yield 30 gpm.
102	do.	--	1940	70	--	--	do.	--	--	--	T, E 3	P	No.
103	do.	Curtis Alford Drilling and Well Service	1945	70	--	--	do.	--	--	--	Sub, E 1	P	--
* 104	do.	--	1945	70	--	--	do.	--	--	--	Sub, E 1	P	--
105	do.	--	1945	70	--	--	do.	--	--	--	Sub, E 1	P	--
106	do.	--	1945	70	--	--	do.	--	--	--	T, E 3	P	--
107	do.	--	1945	70	--	--	do.	--	--	--	Sub, E 1	P	--
108	do.	--	1945	70	--	--	do.	1,640	24.72 15.18	Apr. 7, 1966 Mar. 12, 1969	Sub, E 1	P	Texas Water Development Board observation well. 3/
109	do.	--	--	--	--	--	do.	--	--	--	N	N	--
110	do.	--	1945	70	--	--	do.	--	--	--	Sub, E 1	P	--
111	do.	--	1945	70	--	--	do.	--	--	--	T, E 3	P	--
112	do.	--	1945	70	--	--	do.	--	--	--	T, E 3	P	--

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	JD-31-57-113	City of Rising Star	--	1945	70	--	--	Ka	--	--	--	Sub, E 1	P	--
	114	do.	--	1945	70	--	--	do.	--	--	--	T, E	P	--
	115	do.	--	1945	70	--	--	do.	--	--	--	N	N	Well to be plugged.
	118	do.	Curtis Alford Drilling and Well Service	1967	95	12 8	45 94	do.	1,642	--	--	Sub, E	P	Slotted from 50 to 80 ft. Pump set at 88 ft. Gravel packed. 1/
*	429	Weldon Fenter	do.	1964	80	6	80	do.	1,681	34.13 32.41	July 8, 1965 Mar. 12, 1969	Sub, E 1	Irr	Pump set at 76 ft. Reported yield 30 gpm. Gravel packed. Temp. 70°F. Texas Water Development Board observation well. 1/ 3/

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For water-level measurements, see Table 4.
4/ For power and yield tests on wells, see Table 10, Volume I.

EASTLAND COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric; R, Radioactive; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
JD-30-56-201	Haynes B. Ownby Drilling Co.	Mrs. Lelia Clark No. 1-A	1953	2,858	1,733	E
412	Kerlyn Oil Co.	Fentem No. A-1	1945	3,785	1,775	S
701	Durham and Young Oil Co.	H. L. Vestal No. 1	1949	2,571	1,813	E
802	Jake T. Lake Trustee	A. A. Tyler No. 1	1949	2,501	1,705	R
903	A. R. Dillard and Frank Wood	Pearl Dill No. 1	1948	3,204	1,736	D
31-43-905	Great Western Drilling Co.	Roane No. 1	1964	3,087	1,401	R
44-604	H. M. Gogle	Lone Star Producing Co. No. 1	1955	1,876	1,505	E
605	Grace Oil Co.	Letha King No. 1	1955	1,839	1,491	E
811	Standard Oil of Texas	L. E. Clark No. 1	1954	2,803	1,327	E
49-703	Smart and Brooks	P. C. Larkin No. 1	1940	3,165	1,679	S
57-202	Coastal States Gas Producing Co.	J. E. Watkins No. 2	1961	3,006	1,654	E
203	Trumter Petroleum Corp.	W. S. Carter, et al. No. 1	1953	1,756	1,658	E
303	Coastal States Gas Producing Co.	Bertha Beal No. 1-A	—	2,790	1,532	S

EASTLAND COUNTY

Table 3.--Drillers' Logs of Selected Wells

Well JD-30-48-902

Owner: D. D. Jackson
Driller: Jack Leonard Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Sand	6	6
Sandy clay	40	46
Gravel with clay streaks	6	52
Coarse sand	9	61
Blue shale	2	63

Well JD-30-56-103

Owner: W. B. Holcomb
Driller: J. and L. Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Soil	10	10
Sand	20	30
Water sand	18	48
Yellow	4	52
Brown	10	62
Red	3	65

Well JD-30-56-510

Owner: Oscar Schaefer
Driller: Jack Leonard Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	4	4
White sandy clay	8	12
Hard sand	19	31
White and blue clay	4	35
Sand and gravel	23	58
Red bed	1	59

Well JD-31-35-601

Owner: Morris Campbell
Driller: Robert Lee-Bob-Barnhill

	THICKNESS (FEET)	DEPTH (FEET)
Soil	2	2
Shale	4	6
Sand	11	17
Gravel (water)	2	19
Coarse sand	9	28
Gravel	3	31
Shale	19	50

Well JD-31-35-602

Owner: Morris Campbell
Driller: Robert Lee-Bob-Barnhill

	THICKNESS (FEET)	DEPTH (FEET)
Soil	3	3
Sand and gravel (water at 18 ft)	20	23
Gravel	7	30
Yellow shale	7	37
Blue shale	13	50

Well JD-31-35-604

Owner: Morris Campbell
Driller: Robert Lee-Bob-Barnhill

	THICKNESS (FEET)	DEPTH (FEET)
Soil	3	3
Sand	15	18
Gravel (water)	20	38
Yellow shale	6	44
Blue shale	6	50

Well JD-31-36-702

Owner: Bob Rebels
Driller: Robert Lee-Bob-Barnhill

	THICKNESS (FEET)	DEPTH (FEET)
Soil	3	3
Gravel	15	18
Hard sand	1	19
Gravel (water)	19	38
Red shale	12	50
Hard sand	3	53
Soft sand	5	58
Brown shale	10	68
Purple shale	12	80

Well JD-31-42-505

Owner: W. H. Hoffmann
Driller: W. H. Hoffmann

	THICKNESS (FEET)	DEPTH (FEET)
Sandy soil	15	15
Sand and streaks of shale	20	35
Sand (little water)	7	42
Sand and gravel (water)	7	49
Red bed	23	72

Table 3.—Drillers' Logs of Selected Wells in Eastland County—Continued

Well JD-31-42-505—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Sand and gravel (water)	11	83
Lime	7	90
Blue shale	3	93
Lime	23	116
Shale	2	118
Broken lime and shale	5	123
Gray shale	27	150

Well JD-31-42-507

Owner: W. H. Hoffmann
Driller: W. H. Hoffmann

Sandy soil	6	6
Gray sand	12	18
Yellow sand	7	25
Yellow sandy clay	17	42
Gravel	8	50
Red bed	6	56
Gray lime	4	60
Gray shale	13	73
Gray lime	5	78
Sand and red sandy soil	13	91
Red sandy shale	21	112
Blue shale	13	125
Gray sandy shale	53	178
Gray - blue water sand	13	191
Lime	4	195
Blue shale	7	202

Well JD-31-42-508

Owner: R. G. Lyerla
Driller: W. F. Smith Drilling Co.

Topsoil	2	2
Clay	2	4
Pack sand	25	29
Water sand and gravel	6	35
Shale	8	43

Well JD-31-42-509

Owner: R. G. Lyerla
Driller: W. F. Smith Drilling Co.

Topsoil	3	3
Pack sand	12	15
Sand rock	5	20
Water sand	10	30
Shale	1	31

Well JD-31-42-901

Owner: Rollo Tinkler
Driller: Robert Lee-Bob-Barnhill

Soil	2	2
Red shale	8	10
Sand (water at 38 ft)	32	42
Hard sand	2	44
Gravel (water)	20	64
Shale	21	85

Well JD-31-42-902

Owner: Rollo Tinkler
Driller: Robert Lee-Bob-Barnhill

Soil	2	2
Shale red	10	12
Sand (water at 34 ft)	24	36
Shale red	8	44
Sand hard	5	49
Gravel (water)	19	68
Shale tan	5	73
Sand hard	9	82
Shale brown	10	92

Well JD-31-42-903

Owner: J. F. Guy
Driller: J. T. Carson

Clay	10	10
Gravel	2	12
Hard sand	18	30
Sandy lime	5	35
Water sand and gravel	50	85
Blue shale	6	91

Table 3.—Drillers' Logs of Selected Wells in Eastland County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well JD-31-42-904		
Owner: J. F. Guy Driller: J. T. Carson		
Clay	2	2
Hard sand	10	12
Sand	7	19
Sandy lime	2	21
Sand and gravel	41	62
No record	10	72
Well JD-31-42-905		
Owner: J. F. Guy Driller: J. T. Carson		
Clay	3	3
Dry sand	14	17
Water sand and gravel	41	58
Sandy shale	10	68
Well JD-31-42-906		
Owner: J. F. Guy Driller: J. T. Carson		
Clay	3	3
Sand	12	15
Hard sand - water	3	18
Sand - water	19	37
Hard sand - water	27	64
Brown shale	18	82
Well JD-31-42-907		
Owner: J. F. Guy Driller: J. T. Carson		
Clay	4	4
Dry sand	12	16
Sand and gravel - water	37	53
Shale	12	65
Well JD-31-42-908		
Owner: J. F. Guy Driller: J. T. Carson		
Soil	1	1
Clay	7	8
Dry sand	11	19
Hard sand	9	28
Gravel - water	30	58
Shale	12	70
Well JD-31-43-404		
Owner: C. N. Adams Driller: J. T. Carson		
Soil	2	2
Hard sand	18	20
Red rock	18	38
Water - sand and gravel	47	85
Gray shale	10	95
Blue shale	5	100
Well JD-31-43-702		
Owner: C. N. Adams Driller: J. T. Carson		
Sand	2	2
Yellow clay	14	16
Mud and gravel	9	25
Red clay	5	30
Water sand	15	45
Lime	5	50
Gravel - water	25	75
Blue shale	65	140
Lime	2	142
Blue shale	8	150
Well JD-31-43-703		
Owner: C. N. Adams Driller: J. T. Carson		
Soil	2	2
Clay	3	5
Yellow clay	20	25
Hard sand	10	35
Water sand	17	52
Blue shale	24	76
Well JD-31-43-704		
Owner: C. N. Adams Driller: J. T. Carson		
Soil	2	2
Hard sand	18	20

Table 3.—Drillers' Logs of Selected Wells in Eastland County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well JD-31-43-704—Continued		
Red rock	11	31
Sand and gravel	44	75
Blue shale	13	88

Well JD-31-43-804

Owner: Durwood Burgess
Driller: Curtis Alford Drilling and Well Service

Soil and sand	10	10
Sand rock	4	14
Gray sand	6	20
Sand, little water	6	26
Hard rock	2	28
Sand and gravel	20	48
Sandy, red	14	62
Yellow, sandy	1	63
Sandy water	14	77
Red	3	80

Well JD-31-43-903

Owner: Norman Parks
Driller: N. L. Box Drilling Contractor

Sand	14	14
Water sand	6	20
Gravel	3	23
Gravel and clay	7	30
Lime	2	32
Gravel and clay	22	54
Red bed	5	59
Yellow clay	15	74
Lime	1	75
Blue shale	2	77

Well JD-31-43-904

Owner: Norman Parks
Drilling: N. L. Box Drilling Contractor

Soil	2	2
Red clay	3	5
Water sand	12	17
Sand and gravel	27	44
Yellow clay	2	46
Sand and gravel	24	70

	THICKNESS (FEET)	DEPTH (FEET)
Well JD-31-43-904—Continued		
Yellow clay	2	72
Blue shale	12	84
Sandy lime	13	97
Gray shale	8	105
Pink shale	20	125
Gray shale	3	128
Sandy lime	3	131
Pink shale	13	144
Lime	9	153
Gray shale	7	160
Sandy shale	15	175
Brown shale	12	187
Sandy shale	13	200
Gray shale	5	205
Sandy lime	20	225
Sand, salt water	12	237

Well JD-31-44-501

Owner: Sam Powers
Driller: N. L. Box Drilling Contractor

Red clay	3	3
Sand and clay	13	16
Tight sand 44 to 51 ft (water, 8 gpm)	35	51
Sand and clay	19	70
Coarse sand and gravel	13	83
Fine sand	22	105
Gravel	10	115
Yellow clay	5	120
Brown and blue shale	5	125

Well JD-31-44-601

Owner: Felix Sparks
Driller: N. L. Box Drilling Contractor

Clay	6	6
Sand - little water at 28 ft	22	28
Sand and clay, increase water 38 ft	10	38
Sand and clay	8	46
Water sand	14	60
Sand and gravel	9	69

Table 3.—Drillers' Logs of Selected Wells in Eastland County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well JD-31-44-601—Continued		
Lime and gravel	4	73
Gravel and clay	9	82
Yellow clay	51	133
Broken lime	5	138
Blue shale	49	187
Well JD-31-44-801		
Owner: Magnolia Petroleum Co. Driller: Unknown		
Topsoil	1	1
Mixed clay	21	22
Water sand - 1 bph	6	28
Red clay	12	40
Water sand - 50 bph	26	66
Yellow clay	44	110
Blue shale	93	203
Lime	11	214
Blue shale	16	230
Lime	7	237
Water sand - 3 bph	12	249
Blue shale	34	283
Well JD-31-44-804		
Owner: L. E. Sharp Driller: Lightfoot and McCrum		
Sand	1	1
Red clay	5	6
Sand and gravel	13	19
Red clay	16	35
White sand	10	45
Sandy lime	2	47
Gravel	24	71
Yellow and blue clay	8	79
Well JD-31-44-805		
Owner: L. E. Sharp Driller: Lightfoot and McCrum		
Sand	1	1
Red bed	4	5
Sand and gravel	11	16
Water sand	3	19
Well JD-31-44-805—Continued		
Red clay	16	35
White sand	10	45
Hard sand	3	48
Gravel	23	71
Yellow and blue clay	9	80
Well JD-31-51-103		
Owner: T. H. Birdsong III Driller: Curtis Alford Drilling and Well Service		
Soil	2	2
Gray shale	6	8
Sandy	16	24
Sand rock	1	25
Sandy lime	13	38
Lime and sand	14	52
Gravel and sand water	12	64
Yellow and red shale	18	82
Well JD-31-51-104		
Owner: T. H. Birdsong III Driller: Curtis Alford Drilling and Well Service		
Sand	27	27
Sand rock	1	28
Sand, little water	11	39
Hard sand rock	2	41
Sand and gravel water	9	50
Hard, sandy lime rock	2	52
Gravel and sand water	14	66
Yellow and red shale	15	81
Well JD-31-51-105		
Owner: —Preston Driller: Robert Lee-Bob-Barnhill		
Sand	6	6
Yellow shale	6	12
Sand (water at 17 ft)	5	17
Lime	10	27
Shale, white	5	32
Sand (increase of water)	8	40
Shale, blue	10	50

Table 3.—Drillers' Logs of Selected Wells in Eastland County--Continued

Well JD-31-51-205

Owner: City of Gorman
Driller: H. B. Norton

	THICKNESS (FEET)	DEPTH (FEET)
Clay	4	4
White sand	26	30
Brown sand	10	40
White sand	18	58
Sand rock	2	60
Red clay	9	69
Water sand	5	74
Clay	3	77
Water sand	10	87
Brown clay	5	92
Water sand	12	104
Blue clay	3	107
Sandy clay	6	113

Well JD-31-51-211

Owner: O. R. Buchanan
Driller: Curtis Alford Drilling and Well Service

Sand and clay	3	3
Sand and gravel	22	25
Red bed clay	3	28
Sand	10	38
Sand rock (little water)	2	40
Hard, sandy lime rock	3	43
Hard sand (little water)	12	55
Red bed	3	58
Hard sand rock	2	60
Sandy	4	64
Sand and gravel	19	83
Gray shale	7	90

Well JD-31-51-212

Owner: O. R. Buchanan
Driller: Robert Lee-Bob-Barnhill

Shale	2	2
Shale and sand	6	8
Sand	29	37
Hard sand	1	38
Soft sand	5	43
Hard sand	2	45

Well JD-31-51-212—Continued

Soft sand	2	47
Hard sand	1	48
Soft sand (water at 49 ft)	21	69
Gravel	5	74
Hard sand	4	78
Gravel	10	88
Shale	12	100

Well JD-31-51-214

Owner: Charles Underwood
Driller: Robert Lee-Bob-Barnhill

Soil	2	2
Sand	12	14
Hard sand	3	17
Water sand	3	20
Hard sand	3	23
Soft sand	2	25
Hard sand	7	32
Water gravel	8	40
Hard sand	5	45
Soft sand	7	52
Hard sand	4	56
Red shale	12	68

Well JD-31-51-215

Owner: Lizzie Jackson
Driller: Texas Irrigation Sales, Inc.

Sand and topsoil	2	2
Gray limestone	1	3
Sand and gravel	9	12
Sand and gravel	6	18
Yellow clay	3	21
Sand and gravel	12	33
Yellow clay	12	45
Blue shale	43	88
Dark shale	8	96

Well JD-31-51-222

Owner: City of Gorman
Driller: C. E. Reynolds

Dry sand	41	41
Dry hard sand	4	45

Table 3.--Drillers' Logs of Selected Wells in Eastland County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well JD-31-51-222—Continued		
Dry sand, red	3	48
Gray lime	6	54
Water sand	16	70
Shale, red	1	71
Shale, blue	4	75
Sand and gravel - water	10	85
Gray shale	1	86
Sand and gravel - water	10	96
Blue shale	2	98
Well JD-31-51-224		
Owner: R. F. Hodge		
Driller: Curtis Alford Drilling and Well Service		
Soil	3	3
Red clay	2	5
Sand	14	19
Sand rock	3	22
Sand, little water	1	23
Hard sand rock	1	24
Soapstone, blue	11	35
Rock	2	37
Sand and gravel - water	23	60
Red and yellow shale	5	65
Hard sand	13	78
Red and blue shale	11	89
Well JD-31-51-306		
Owner: Norman Parks		
Driller N. L. Box Drilling Contractor		
Soil and clay	6	6
Water sand	4	10
Sand and clay	8	18
Gravel	26	44
Red clay	4	48
Gravel	9	57
Clay	4	61
Sandy lime	5	66
Gravel	9	75
Broken lime	18	93
Blue shale	16	109

	THICKNESS (FEET)	DEPTH (FEET)
Well JD-31-51-306—Continued		
Sandy lime	2	111
Brown shale	21	132
Sandy lime	8	140
Blue shale	20	160
Red bed	12	172
Shale and lime	97	269
Well JD-31-51-307		
Owner: Norman Parks		
Driller: N. L. Box Drilling Contractor		
Soil	1	1
Clay	5	6
Sand	8	14
Gravel	3	17
Sand and gravel	8	25
Gravel and clay	18	43
Yellow clay	10	53
Gravel and clay	8	61
Red clay	7	68
Blue clay	8	76
Purple clay	13	89
Well JD-31-52-103		
Owner: Rayford Burgess		
Driller: Ardean Kimmell Irrigation Service		
Surface	6	6
Sand	9	15
Sand and gravel	8	23
Brown shale	5	28
Hard gravel	19	47
Conglomerate	38	85
Blue shale	10	95
Well JD-31-52-104		
Owner: Rayford Burgess		
Driller: Ardean Kimmell Irrigation Service		
Surface	6	6
Yellow clay	9	15
Sand	9	24
Yellow clay	11	35
Sand and gravel	11	46

Table 3.—Drillers' Logs of Selected Wells in Eastland County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well JD-31-52-104—Continued		
Blue shale	4	50
Brown shale	6	56
Blue shale	13	69

Well JD-31-57-118

Owner: City of Rising Star
Driller: Curtis Alford Drilling and Well Service

Soil	4	4
Red clay	6	10
Sand	10	20
Water sand	10	30
Red bed	4	34
Blue soapstone	11	45
Soapstone	5	50
Water sand	5	55
Sand and shale	5	60
Sandy lime, hard	2	62
Hard sand - water	3	65

	THICKNESS (FEET)	DEPTH (FEET)
Well JD-31-57-118—Continued		
Sand and gravel - water	15	80
Hard lime rock	9	89
Yellow and brown shale	6	95

Well JD-31-57-429

Owner: Weldon Fenter
Driller: Curtis Alford Drilling and Well Service

Soil	.5	.5
Red clay	2.5	3
Sand	32	35
Sand rock	2	37
Water sand - little water	10	47
Sand and gravel (tested 12 gpm)	11	58
Red bed	6	64
Sand rock	2	66
Water sand - bailed 28 to 30 gpm	11	77
Lime rock	3	80

EASTLAND COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

Well JD-30-48-201

Owner: G. M. Waters

DATE	WATER LEVEL
May 17, 1937	6
Apr. 7, 1966	8.80
Mar. 15, 1967	9.16
Mar. 12, 1969	8.04

Well JD-30-48-701

Owner: W. T. Rutherford

DATE	WATER LEVEL
Mar. 17, 1937	10
Apr. 7, 1966	13.63
Mar. 15, 1967	13.48
Mar. 12, 1969	10.79

Well JD-30-48-901

Owner: D. D. Jackson

DATE	WATER LEVEL
Mar. 12, 1969	31.76

Well JD-30-56-407

Owner: W. F. Lilley

DATE	WATER LEVEL
July 8, 1965	43.21
Apr. 7, 1966	43.30
July 6, 1967	41.33
Mar. 21, 1968	35.61
Mar. 12, 1969	39.66

Well JD-30-56-502

Owner: Cowan Hutton

DATE	WATER LEVEL
Jan. 19, 1961	22
Sept. 1, 1966	31.23
Sept. 27, 1966	29.75
Nov. 2, 1966	29.28
Nov. 29, 1966	28.86
Jan. 4, 1967	28.69
Feb. 7, 1967	28.20
Mar. 15, 1967	28.66
May 4, 1967	28.20
June 7, 1967	27.92

Well JD-30-56-502—Continued

DATE	WATER LEVEL
Sept. 11, 1967	30.77
Oct. 3, 1967	29.72
Nov. 7, 1967	29.14
Dec. 4, 1967	28.68
Jan. 3, 1968	28.55
Feb. 5, 1968	28.38
Mar. 12, 1969	26.36

Well JD-30-56-510

Owner: Oscar Schaefer

DATE	WATER LEVEL
July 7, 1965	30.41
Apr. 7, 1966	28.04
Mar. 15, 1967	23.47
Mar. 12, 1969	18.89

Well JD-31-35-604

Owner: Morris Campbell

DATE	WATER LEVEL
Oct. 12, 1965	18.56
Apr. 1, 1966	19.29
Aug. 31, 1966	19.26
Sept. 27, 1966	19.26
Nov. 2, 1966	19.31
Nov. 29, 1966	19.27
Jan. 4, 1967	19.43
Feb. 9, 1967	19.38
Mar. 14, 1967	19.64
May 3, 1967	19.79
June 8, 1967	19.94
July 5, 1967	20.09
Aug. 3, 1967	20.28
Sept. 11, 1967	20.59
Oct. 3, 1967	20.74
Nov. 7, 1967	20.83
Dec. 4, 1967	20.78
Jan. 3, 1968	20.84

Well JD-31-35-604—Continued

DATE	WATER LEVEL
Feb. 5, 1968	20.69
Mar. 13, 1969	18.80

Well JD-31-36-702

Owner: Bob Rebels

DATE	WATER LEVEL
Sept. 9, 1965	16
Oct. 21, 1965	14.14
Apr. 1, 1966	13.73
Mar. 13, 1969	14.86

Well JD-31-41-701

Owner: C. Livingston

DATE	WATER LEVEL
May 17, 1937	7
Mar. 14, 1967	6.84
Mar. 5, 1969	5.24

Well JD-31-42-505

Owner: W. H. Hoffmann

DATE	WATER LEVEL
Apr. 6, 1966	22.18
Mar. 14, 1967	20.50
Mar. 21, 1968	20.37
Mar. 12, 1969	19.39

Well JD-31-42-806

Owner: Clyde Barbee

DATE	WATER LEVEL
Apr. 6, 1966	31.79
Mar. 14, 1967	31.28
Mar. 12, 1969	29.20

Well JD-31-43-702

Owner: C. N. Adams

DATE	WATER LEVEL
Sept. 27, 1966	16.63
Nov. 2, 1966	15.84
Nov. 29, 1966	16.10
Jan. 4, 1967	15.90
Feb. 9, 1967	16.67
May 3, 1967	16.40

Table 4.—Water Levels in Selected Wells in Eastland County—Continued

DATE	WATER LEVEL
Well JD-31-43-702—Continued	
June 7, 1967	16.09
July 5, 1967	16.21
Oct. 3, 1967	17.92
Nov. 7, 1967	17.25
Dec. 4, 1967	16.98
Jan. 3, 1968	16.78
Feb. 5, 1968	16.44
Mar. 12, 1969	15.13
Well JD-31-43-803	
Owner: R. W. Eaves	
July 22, 1965	3.56
Apr. 6, 1966	6.14
Mar. 14, 1967	6.25
Mar. 12, 1969	6.23
Well JD-31-44-401	
Owner: W. A. Logan	
June 17, 1937	23
Apr. 1, 1966	21.96
Aug. 31, 1966	22.84
Sept. 27, 1966	22.30
Nov. 2, 1966	22.27
Nov. 29, 1966	22.13
Jan. 4, 1967	22.18
Feb. 9, 1967	21.92
Mar. 14, 1967	21.90
May 3, 1967	21.84
June 8, 1967	22.13
July 5, 1967	22.18
Aug. 3, 1967	23.03
Sept. 11, 1967	23.78
Oct. 3, 1967	23.66
Dec. 4, 1967	23.24
Jan. 3, 1968	23.05
Feb. 5, 1968	22.50
Mar. 13, 1969	22.03
Well JD-31-44-502	
Owner: Sam Powers	
Apr. 6, 1966	38.97
Mar. 14, 1967	38.42
Mar. 13, 1969	36.17
Well JD-31-44-802	
Owner: L. E. Clark	
Jan. 24, 1961	30
Apr. 1, 1966	28.25
Mar. 14, 1967	32.54
Mar. 21, 1968	30.77
Mar. 13, 1969	31.97
Well JD-31-44-804	
Owner: L. E. Sharp	
Oct. 12, 1965	48.52
Apr. 1, 1966	47.27
Mar. 14, 1967	49.33
Mar. 13, 1969	48.76
Well JD-31-51-211	
Owner: O. R. Buchanan	
July 22, 1965	42
July 23, 1965	44.07
Apr. 6, 1966	43.21
Sept. 1, 1966	45.05
Sept. 27, 1966	43.94
Nov. 2, 1966	43.82
Nov. 29, 1966	43.50
Jan. 4, 1967	43.76
Mar. 14, 1967	44.29
May 3, 1967	43.79
June 7, 1967	43.49
July 5, 1967	43.46
Aug. 3, 1967	49.27
Sept. 11, 1967	49.53
Oct. 3, 1967	47.38
Nov. 7, 1967	46.64
Well JD-31-51-211—Continued	
Dec. 4, 1967	46.09
Jan. 3, 1968	45.70
Feb. 5, 1968	45.64
Mar. 12, 1969	44.91
Well JD-31-51-215	
Owner: Lizzie Jackson	
Apr. 6, 1966	24.61
Mar. 14, 1967	25.34
Mar. 21, 1968	26.76
Mar. 12, 1969	26.44
Well JD-31-51-306	
Owner: Norman Parks	
Apr. 1, 1966	6.87
Mar. 14, 1967	5.68
Mar. 21, 1968	2.65
Mar. 13, 1969	6.45
Well JD-31-57-108	
Owner: City of Rising Star	
Apr. 7, 1966	24.72
Mar. 15, 1967	26.51
Mar. 21, 1968	19.94
Mar. 12, 1969	15.18
Well JD-31-57-429	
Owner: Weldon Fenter	
July 8, 1965	34.13
Apr. 7, 1966	34.75
Mar. 15, 1967	34.92
Mar. 12, 1969	32.41

EASTLAND COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
1/ JD-30-48-201	29	May 17, 1937	Ka	--	--	--	--	--	--	329	74	82	--	--	--	--	--	--	--	--	--	--
1/ 701	35	do.	do.	--	--	--	--	--	--	244	37	80	--	--	--	378	--	--	--	--	--	--
56-409	138	July 8, 1965	do.	10	--	91	31	36	--	387	38	54	0.9	< 0.4	--	650	451	356	18	779	7.5	0.8
501	70	July 23, 1968	do.	17	--	114	25	60	3.0	428	32	87	.5	< .4	0.4	550	--	388	25	954	7.2	1.3
509	56	July 7, 1965	do.	29	--	57	9	26	--	146	27	56	.4	10	--	360	286	179	24	500	6.8	.8
512	42	July 8, 1965	do.	33	--	46	15	399	--	630	167	234	2	< .4	--	1,530	1,206	175	83	1,930	7.5	13.1
514	48	do.	do.	20	--	145	20	159	--	235	136	314	.7	1.5	--	1,030	912	443	44	1,610	6.9	3.3
901	65	July 6, 1965	do.	21	--	93	20	32	--	359	24	39	.5	25	--	610	432	317	19	715	7.3	.8
64-202	42	Mar. 3, 1969	do.	31	--	492	90	600	--	270	96	1,810	.4	40	--	3,290	--	1,600	45	5,340	6.9	6.5
301	80	July 23, 1968	do.	17	--	96	23	40	3	295	31	91	.5	16.5	.1	461	--	336	20	806	7.4	.9
608	41	Mar. 14, 1969	do.	18	--	392	73	201	--	306	275	489	1	648	--	2,250	--	1,280	25	3,090	7.2	2.4
31-35-604	50	Oct. 12, 1965	do.	13	--	30	6	37	--	156	21	16	1	3	--	283	204	98	45	350	7.3	1.6
36-702	80	July 22, 1968	do.	13	--	51	6	53	2	192	48	37	.5	2	.1	305	--	152	43	520	7.2	1.9
1/ 41-701	187	May 17, 1937	Ka, P	--	--	--	--	--	--	--	771	590	--	--	--	--	--	--	--	--	--	--
701	187	Mar. 5, 1969	do.	48	--	59	19	171	--	315	210	88	4	< .4	--	750	--	227	62	1,120	7.7	5.0
42-510	36	do.	Ka	25	--	940	177	2,060	--	322	33	5,200	.9	< .4	--	8,600	--	3,080	59	< 12,000	6.8	16.2
806	65	Oct. 20, 1965	do.	14	--	401	97	278	--	540	254	880	.6	6.5	--	2,470	2,197	1,400	30	3,600	7.0	3.2
902	92	July 22, 1968	do.	18	--	174	10	62	4	351	26	200	.1	5.5	.2	670	--	476	22	1,186	7.1	1.2
43-803	90	July 22, 1965	do.	17	--	53	2	3	--	134	10	3	.5	27.0	--	250	182	142	4	300	7.3	.1
2/ 44-401	37	June 17, 1937	do.	--	--	--	--	--	--	--	60	415	--	--	--	--	--	--	--	--	--	--
501	125	July 21, 1965	Ktp	17	--	132	13	114	--	296	71	213	2.4	23	--	880	731	382	39	1,270	7.1	2.5
1/ 601	88	Jan. 17, 1961	do.	18	--	119	13	* 38.9	--	348	26	80	--	11	.08	518	477	350	19	845	7.0	.9
802	80	Jan. 24, 1961	do.	18	0.00	111	11	* 39.6	--	329	19	82	.2	12	.04	497	452	322	21	797	7.2	.9
805	80	July 22, 1968	do.	21	--	88	9	25	3	238	18	57	.3	13	.1	348	--	259	17	604	7.5	.7
1/ 51-203	105	Jan. 18, 1961	Ka	22	--	124	11	* 70.1	--	205	48	173	--	52	.05	708	601	354	30	1,060	7.2	1.6

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
JD-31-51-203	105	July 22, 1965	Ka	19	--	115	9	78	--	243	46	172	0.4	17	--	700	575	327	34	1,030	7.1	1.9
204	108	Jan. 28, 1953	Ktp	20	0.36	352	29	144	--	445	236	476	.1	35	--	1,640	1,511	997	24	--	7.0	1.9
205	113	Jan. 28, 1953	Ktp	16	.06	194	16	79	--	272	71	209	.1	44	--	875	763	550	24	--	7.1	1.5
205	113	June 1, 1962	do.	--	.06	214	24	75	--	378	48	305	.1	7.7	--	1,170	860	635	20	1,960	6.9	1.3
1/ 206	100	Feb. 6, 1946	do.	10	.30	226	15	* 104	--	402	45	311	.0	30	--	939	--	626	27	1,730	7.2	1.8
206	100	Jan. 28, 1953	do.	33	.9	195	13	115	--	403	77	259	.1	19	--	990	910	540	32	--	7.1	2.1
206	100	June 1, 1962	do.	--	.92	230	24	110	--	395	73	360	.1	15.6	--	1,380	1,008	675	26	2,300	6.9	1.8
1/ 207	84	Feb. 6, 1946	do.	14	.16	285	17	* 126	--	408	89	409	.0	54	--	1,270	1,195	782	26	2,170	7.1	1.9
207	84	June 11, 1962	do.	--	.07	260	22	112	--	398	86	380	.1	26.3	--	1,440	1,082	740	25	2,400	6.8	1.8
208	120	June 1, 1962	do.	--	.01	244	21	126	--	415	71	405	.2	28.5	--	1,260	1,100	695	28	2,100	6.9	2.1
209	106	do.	do.	--	.12	190	22	64	--	373	51	215	.1	27.9	--	1,080	753	565	20	1,800	6.8	1.2
1/ 210	106	Feb. 6, 1946	do.	14	.08	181	14	* 42	--	396	45	147	.0	13	--	742	651	509	15	1,210	7.2	0.8
210	106	June 1, 1962	do.	--	.25	206	17	98	--	366	51	290	.1	56	--	1,080	898	585	27	2,400	6.8	1.8
214	68	July 23, 1965	do.	20	--	200	14	83	--	386	38	273	.3	10	--	1,020	828	556	24	1,500	7.5	1.5
215	96	July 26, 1965	Ka	21	--	226	14	98	--	375	60	323	.3	11	--	1,130	937	620	26	1,660	7.1	1.7
217	100	July 21, 1965	do.	33	--	63	5	55	--	279	24	23	1.1	25	--	510	366	180	40	580	7.5	1.8
218	60	July 22, 1968	do.	12	--	124	12	53	4	320	33	116	.5	10.5	0.3	520	--	358	24	912	7.3	1.2
223	106	Sept. 22, 1962	Ktp	--	.08	165	12	38	--	371	23	150	.1	8	--	767	578	462	15	1,200	7.5	.8
227	90	Oct. 15, 1968	Ka	3	--	262	14	109	4	362	66	418	.5	2.5	.2	1,050	--	715	25	1,840	7.5	1.8
1/ 57-101	70	Feb. 4, 1946	do.	16	.04	98	46	* 35.6	--	398	30	105	.0	.0	--	569	527	434	15	982	7.3	.7
1/ 104	70	do.	do.	22	.08	111	30	* 115.3	--	426	62	143	.2	35	--	883	727	400	39	1,260	7.0	2.5
429	80	July 8, 1965	do.	14	--	97	18	74	--	468	34	25	1.8	20	--	750	514	316	34	834	7.4	1.8

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS

1/ U.S. Geological Survey Laboratory
2/ The University of Texas

EASTLAND COUNTY

Table 6.—Chemical Analyses of Oil-Field Brines

(Analyses are given in parts per million except pH)

SYSTEM	PRODUCING ZONE	FIELD	AVERAGE DEPTH (FT)	AREA SHOWN ON FIGURE 18, VOLUME I	CALCIUM (Ca)	MAG-NESIUM (Mg)	SODIUM (Na)	BICAR-BONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	TOTAL DISSOLVED SOLIDS	pH
—[a]	3500 feet sand	Regular	3,500	K-8	11,034	1,960	41,932	99	191	89,722	143,970	6.15
—[a]	do.	do.	—	K-8	3,229	2,025	15,597	80	0	35,629	57,560	6.15
—[a]	3,400 feet sand	do.	—	K-8	6,324	2,335	27,324	133	28	60,048	95,667	6.32
—[a]	do.	do.	—	K-8	6,190	2,090	25,330	114	9	56,045	89,517	6.25
—[a]	—	7 mi. N Eastland	—	K-8	3,975	815	—	—	—	38,800	68,300	6.1
—[a]	—	do.	—	K-8	9,860	1,540	—	—	180	86,200	159,700	5.9
—[a]	—	7 mi. W Ranger	—	K-8	6,940	1,030	—	—	145	68,100	126,300	6.2
—[a]	—	do.	—	K-8	10,100	1,600	—	—	205	87,100	162,900	5.7
—[a]	—	5 mi. NW Ranger	—	K-8	3,985	1,620	—	—	—	59,900	140,000	6.2
—[a]	—	do.	—	K-8	2,610	1,560	—	—	—	18,600	30,100	6.4
—[a]	—	do.	—	K-8	4,675	1,595	—	—	—	63,900	112,000	6.3
—[a]	—	do.	—	K-8	4,920	1,680	—	—	—	65,900	118,300	6.2
—[a]	—	do.	—	K-8	5,120	2,095	—	—	—	72,500	129,500	6.1
—[a]	—	4 mi. W Ranger	—	P-8	7,090	1,180	—	—	170	68,500	124,800	5.7
—[a]	—	do.	—	P-8	6,080	1,210	—	—	—	60,000	107,200	5.9
—[a]	—	6 mi. SW Ranger	—	P-8	5,030	1,060	—	—	180	51,400	94,500	6.3
—[a]	—	do.	—	P-8	2,315	515	—	—	125	28,730	42,300	6.3
—[a]	—	do.	—	P-8	8,350	1,270	—	—	500	74,600	139,100	5.6
—[a]	—	do.	—	P-8	4,230	755	—	—	—	44,300	80,500	5.7
—[a]	—	do.	—	P-8	—	270	—	—	—	8,060	14,900	6.1

Table 6.—Chemical Analyses of Oil-Field Brines in Eastland County—Continued

SYSTEM	PRODUCING ZONE	FIELD	AVERAGE DEPTH (FT)	AREA SHOWN ON FIGURE 18, VOLUME I	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	TOTAL DISSOLVED SOLIDS	pH
–[a]	–	6 mi. SW Ranger	–	P-8	1,180	415	–	–	255	23,650	38,300	6.4
–[a]	–	do.	–	P-8	1,770	620	–	–	285	31,700	58,300	6.3
–[d]	–	Isett	–	K-3	9,300	3,150	37,000	37	50	84,200	133,700	6.1
Pennsylvanian[b]	Strawn	Ranger	1,350	P-8	6,631	1,684	26,958	161	342	57,860	–	6.5
Do.[b]	do.	Strawn	1,150	P-8	6,213	1,659	25,450	108	0	55,005	–	6.4
Do.[b]	Caddo	Keel-Caddo	2,906	K-5	7,880	3,010	34,600	299	5	76,000	–	6.6
Do.[b]	Lake sand	Bankline-Owen	3,300	P-3	10,520	1,320	40,100	171	242	84,000	–	6.8
Do.[b]	do.	Cisco West	3,548	K-4 and K-5	12,100	1,655	43,904	74	138	93,780	–	4.7
Do.[b]	do.	Lee Ray	3,500	P-3	13,150	2,737	42,700	184	96	97,030	–	6.2
Do.[b]	Marble Falls	Kirk	3,000	K-10	7,680	339	29,800	126	945	59,800	–	6.6
Do.[b]	Duffer	Cisco Lake	3,890	P-3	12,850	1,659	40,750	191	172	90,210	–	6.7
Do.[c]	Lake sand	Bankline-Owen	3,300	P-3	10,310	1,524	39,650	173	183	83,600	–	6.4
Do.[b]	Ranger sand	Aaron	3,100	K-7 and P-3	2,833	857	19,150	168	214	36,810	–	6.9
Mississippian[b]	Mississippian	do.	3,400	P-3	3,382	606	24,195	300	454	44,450	–	7.2
Do.[b]	do.	do.	3,400	P-3	2,306	718	25,501	369	378	45,010	–	7.3
Do.[c]	do.	Hittson	3,700	P-3	8,370	833	26,000	207	678	56,500	–	5.7

[a] Analyses obtained from data accompanying Railroad Commission of Texas' 1967 Salt Water Production and Disposal questionnaires.
[b] Analyses obtained from Laxson and others, 1960.
[c] Analyses obtained from BJ Service, Inc., 1960.
[d] Analyses obtained by Texas Water Development Board.

SHACKELFORD COUNTY

30 | 31

STEPHENS COUNTY

PALO PINTO COUNTY

ERATH COUNTY

COMANCHE COUNTY

CALLAHAN COUNTY

BROWN COUNTY

99°00'

98°52'30"

98°45'

98°37'30"

98°30'

32°30'

32°22'30"

32°15'

32°07'30"

Ranger

EASTLAND

Cisco

LAKE CISCO

LEON RESERVOIR

Carbon

Gorman

Rising Star

U.S. 80

U.S. 183

U.S. 380

State 6

FM 101

FM 2945

FM 3244

FM 3284

FM 3353

FM 3354

FM 3355

FM 3356

FM 3357

FM 3358

FM 3359

FM 3360

FM 3361

FM 3362

FM 3363

FM 3364

FM 3365

FM 3366

FM 3367

FM 3368

FM 3369

FM 3370

FM 3371

FM 3372

FM

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwh, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* JK-32-48-901	H. P. Irving	C. M. Stoner Drilling Co.	1965	384	4	384	Kwb	581	168.6	June 22, 1965	T, E 3/4	D, S	Well used in 1967 Ellis County report. Perforated from 355 to 365 ft. Reported yield 10 gpm.
* 33-25-902	Sardis-Lone Elm Water Supply Corp.	J. L. Myers Sons	1964	2,763	10 7 6	-- -- --	Kho	769	625 659.1	Dec. 1964 June 24, 1965	T, E 60	P	Well used in 1967 Ellis County report. Screened from 2,565 to 2,581, 2,592 to 2,617, 2,632 to 2,650, and 2,664 to 2,699 ft. Estimated yield 250 gpm. 2/
* 41-501	Buena-Vista Water Supply Corp.	do.	1965	2,606	7	2,606	do.	690	458.8	June 16, 1965	T, E	P	Well used in 1967 Ellis County report. Screened from 2,450 to 2,456, 2,466 to 2,472, 2,480 to 2,489, 2,493 to 2,506 and 2,516 to 2,520 ft. Estimated yield 150 gpm. Temp. 109°F. 2/
49-201	R. S. LeSage	Lesco, Inc.	1944	2,559	8	2,559	Kp	525	--	--	--	--	Well used in 1967 Ellis County report. Perforated from 1,415 to 1,463 ft. Well was drilled as oil test and completed as water well. 2/
* 57-201	City of Milford	R. H. Dearing and Son	1916	2,592	6 4	-- 2,592	Kho	650	62 173.1	1946 Feb. 13, 1961	T, E 30	P	Well used in 1967 Ellis County report. Perforated. Well reported flowed 145,000 gpd or 101 gpm when drilled. Temp. 101°F. 1/
* 202	do.	J. L. Myers Sons	1964	900	8 4	-- 900	Kwb	650	370 384.7	June 1964 June 4, 1964	T, E	P	Well used in 1967 Ellis County report. Screened from 744 to 786, 789 to 803, and 824 to 845 ft. Estimated yield 136 gpm. Temp. 86°F. 1/ 2/
* 205	W. B. Borgers	do.	1962	822	4	822	do.	592	250 292.1	Apr. 1962 July 14, 1965	T, E 1-1/2	D	Well used in 1967 Ellis County report. Perforated from 799 to 822 ft. Reported yield 10 gpm. Temp. 80°F.

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.

ELLIS COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
JK-33-49-101	Lesco, Inc.	R. S. Lesage No. 1	1944	2,898	710	E
50-601	L. H. Hughey and S. L. Carpenter	Martha Cass Fester No. 1	1946	3,007	435	E
58-101	Geologic Enterprises	Bennett No. 1	1962	1,900	505	—

ELLIS COUNTY

Table 3.—Drillers' Logs of Selected Wells

Well JK-33-57-201

Owner: City of Milford
Driller: R. H. Dearing and Son

	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	3	3
Rock, white	307	310
Shale, blue	330	640
Sand	9	649
Shale	15	664
Sand	14	678
Shale	36	714
Sand	6	720
Shale	25	745
Sand	53	798
Shale	178	976
Limestone, hard	224	1,200
Marl, white	25	1,225
Limestone, hard	89	1,314
Marl, white	56	1,370
Limestone, hard	75	1,445
Shale	10	1,455
Sand rock, very hard	7	1,462
Sand, good	23	1,485
Shale	7	1,492
Lime, hard	58	1,550
Soapstone	15	1,565
Marl	55	1,620
Limestone, soft	30	1,650
Limestone, hard	174	1,824
Marl, white	11	1,835
Limestone, hard	160	1,995
Marl	7	2,002
Limestone, hard	26	2,028
Limestone, soft	47	2,075
Soapstone	20	2,095
Limestone, hard	10	2,105
Sand, mineral	5	2,110
Limestone, hard	7	2,117

Well JK-33-57-201—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Soapstone	19	2,136
Sand, hard, mineral	9	2,145
No record	15	2,160
Sand, hard, mineral	8	2,168
Shale, blue	7	2,175
Sand, hard, mineral	32	2,207
Limestone, hard	43	2,250
Shale	25	2,275
Limestone	10	2,285
Marl, red	19	2,304
Shale	36	2,340
Marl, red	25	2,365
Limestone	35	2,400
Marl, red	18	2,418
Sandrock	10	2,428
Marl, red	7	2,435
Sand	15	2,450
Marl, red	20	2,470
Sand, good	118	2,588
Sand rock, very hard	4	2,592

Well JK-33-57-202

Owner: City of Milford
Driller: J. L. Myers Sons

Surface soil	4	4
Chalk, rock	311	315
Shale	351	666
Sand	19	685
Shale	63	748
Sand	15	763
Shale	4	767
Sand	27	794
Sand, broken	28	822
Sand	30	852
Sand and shale	8	860
Shale	40	900

ELLIS COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpc, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.

"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

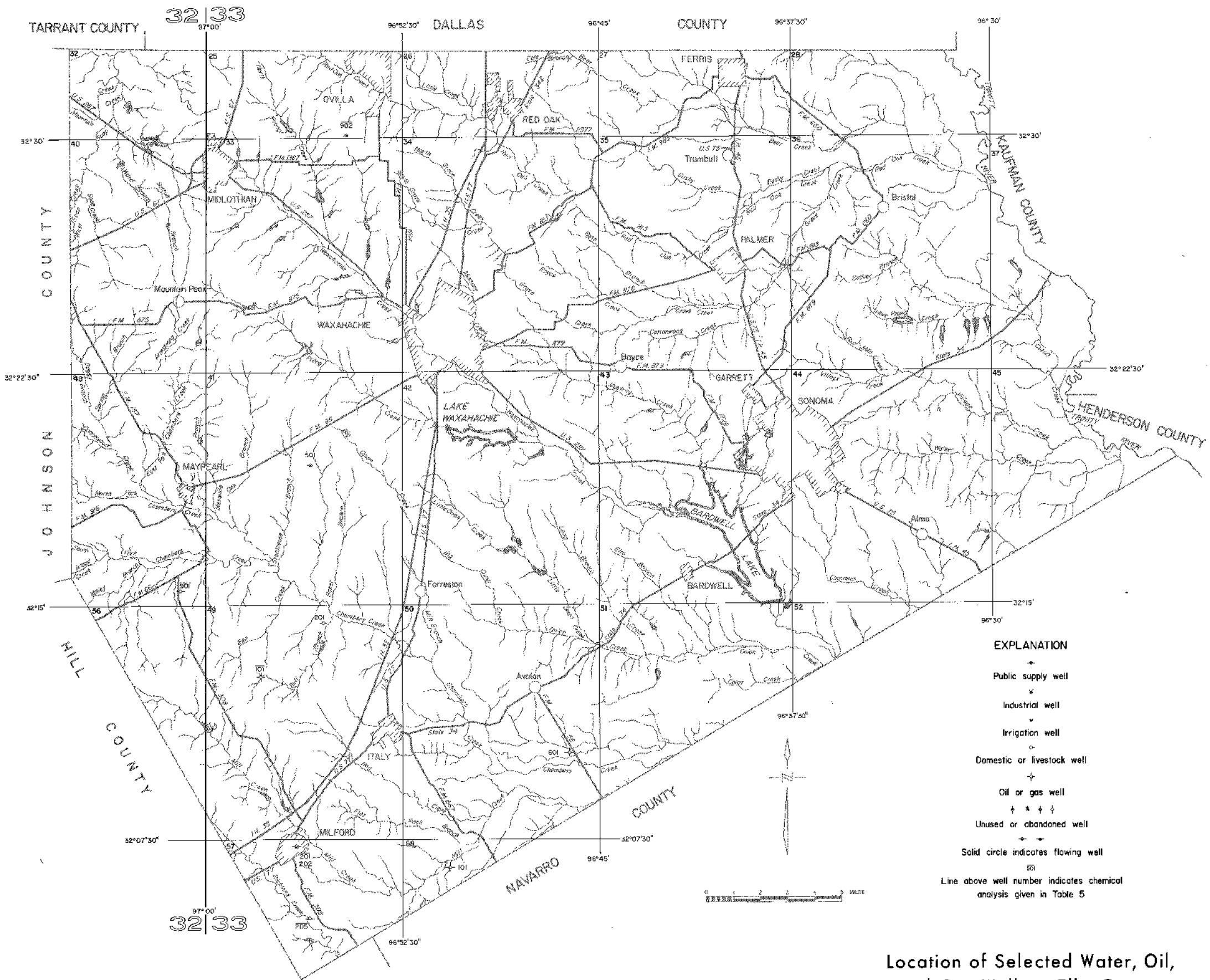
Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
1/ JK-32-48-901	384	June 22, 1965	Kwb	--	--	--	--	--	--	620	353	51	--	0.0	--	--	--	10	--	1,820	8.1	--
2/ 33-25-902	2,763	Dec. 28, 1964	Kho	15	0.1	4	1.9	* 312	--	520	98	91	1.7	.6	--	1,068	780	18	97	--	8.5	32.3
1/ 902	2,763	June 25, 1965	do.	20	.04	2.2	1.1	300	1.8	552	97	84	1.6	.0	0.62	779	--	10	98	1,310	8.1	40.8
2/ 41-501	2,606	May 24, 1965	do.	16	.15	2.4	1.5	* 303	--	510	86	76	1	--	--	1,032	737	12	98	--	8.5	37.7
1/ 501	2,606	June 25, 1965	do.	20	.23	2.5	1	297	1.8	556	86	76	1.4	.0	.66	759	--	10	98	1,270	8.0	40.4
1/ 57-201	2,592	Jan. 1943	do.	14	.04	13	5.2	358	7.8	439	245	110	1.2	.0	--	1,010	970	54	92	--	8.4	21.3
1/ 201	2,592	Mar. 21, 1949	do.	20	.10	14	6.8	* 379	--	500	287	111	1.4	1.2	.78	1,080	1,068	63	93	1,690	8.4	20.9
201	2,592	Feb. 1, 1962	do.	--	.06	26	11	* 415	--	473	440	98	2	.7	--	1,368	1,226	110	89	--	--	17.2
202	900	June 4, 1964	Kwb	--	.20	4	1	* 520	--	590	496	77	3.2	< .4	--	1,680	1,392	14	99	2,475	8.3	61.1
1/ 202	900	June 4, 1965	do.	12	.06	3	1.6	514	2	612	516	79	2	.2	2.5	1,430	--	14	99	2,250	8.2	60.4
1/ 205	822	July 14, 1965	do.	14	--	1.5	.9	* 356	--	674	151	48	1.4	.2	--	904	--	7	99	1,450	8.2	59.6

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

1/ U.S. Geological Survey Laboratory
2/ Pope Testing Laboratories



Location of Selected Water, Oil, and Gas Wells in Ellis County

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane, or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* JP-31-38-802	T. C. Sellers	--	--	60	5	60	Ktp	1,255	28.4	Mar. 11, 1969	J, E	S	Temp. 64°F.
39-502	-- Fruehauf	Terry Drilling and Supply Co.	1955	308	10	308	do.	1,175	62.22 62.73	Oct. 28, 1965 Mar. 27, 1969	Sub, E 1-1/2	D, S	Completed from 137 to 159 ft. Pump set at 129 ft. Measured yield 17.7 gpm. Power and yield test on Aug. 16, 1967. Texas Water Development Board observation well. 1/ 4/ 5/
* 901	Morgan Mill Water Supply Corp.	Jack Leonard Drilling Co.	1968	35	20 6	20 35	Kho	1,040	10	Mar. 3, 1963	Sub, E 1-1/2	P	Perforated from 28 to 32 ft. Pumping level 28 ft at 36 gpm in Mar. 1968. Pump set at 32 ft. Estimated yield 35 gpm. Gravel packed. Cemented from 12 ft to surface. 1/
* 902	do.	do.	1968	32	20 6	12 32	do.	1,035	10	Mar. 5, 1968	Sub, E 1/2	P	Perforated from 21 to 25 ft. Pumping level 28 ft at 10 gpm in Mar. 1968. Pump set at 30 ft. Gravel packed. 1/
44-901	Richard Krapf	Terry Drilling and Supply Co.	1952	144	7	144	Khe, Kho	1,395	--	--	Sub, N	Irr	Completed from 63 to 70 and 95 to 139 ft. Reported yield 200 gpm. Gravel packed. Well drilled to 219 ft and plugged back to 144 ft. 1/
902	do.	do.	--	174	8	174	Ktp	1,420	--	--	Sub, E	Irr	Pump set at 174 ft. Reported yield 265 gpm. Gravel packed.
* 903	L. E. Singleton	B. G. Watson	1966	105	8	105	do.	1,390	--	--	Sub, E	Irr	Slotted from 30 to 90 ft. Gravel packed.
* 904	do.	George Parker	1964	125	7	125	do.	1,373	35 34.33	1964 Mar. 11, 1969	Sub, E	Irr	Completed from 49 to 125 ft. Gravel packed. Temp. 68°F. Texas Water Development Board observation well. 4/
905	Mobil Oil Corp.	--	1920	150	7	150	do.	1,455	--	--	C, E 10	Ind	Pump set at 140 ft.
46-203	Phillips Petroleum Co.	Jones Drilling Co.	1961	397	--	--	do.	1,465	--	--	T, E 10	Ind	1/
* 204	do.	do.	1961	396	8	396	Khe, Kho	1,465	--	--	T, E 7-1/2	Ind	Screened from 307 to 337 ft. and perforated 370 to 395 ft. Temp. 71°F. 1/
205	do.	do.	1964	384	--	--	Ktp	1,465	--	--	N	N	Well abandoned.
901	L. L. Hopke	do.	1963	435	8	435	do.	1,425	270 293.50	Dec. 9, 1963 Mar. 27, 1969	N	N	Perforated. Texas Water Development Board observation well. 1/ 4/
902	Rodger George	do.	1966	386	8	386	do.	1,410	240	May 1966	T, G 75	Irr	Slotted from 226 to 386 ft. Pump set at 375 ft. Measured yield 222.6 gpm.
* 47-402	Kenneth Rucker	do.	1962	392	6	392	Khe	1,430	290	June 25, 1962	Sub, E 7-1/2	Irr	Completed from 382 to 392 ft. Pump set at 340 ft. Temp. 72°F. 1/
701	Raymond Jarrett	do.	--	355	8 7	286 355	Ktp	1,307	--	--	T, E	Irr	Perforated from 283 to 355 ft. 1/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
JP-31-48-302	Lee Manning	Jones Drilling Co.	1964	145	8 6	120 145	Ktp	910	20.20	Oct. 14, 1965	T, E 10	Irr	Completed from 77 to 100 ft. Pump set at 110 ft. Reported yield 100 gpm. Measured yield 69.1 gpm. Power and yield test at sprinkler on Aug. 16, 1967. 5/
303	Santa Fe Railroad Co.	--	1942	300	--	--	Ktp, P	880	--	--	--	N	--
401	J. W. Waldie	--	--	150	8	150	Ktp	1,020	15 46.44	1960 Mar. 27, 1969	T, E 5	Irr	Pump set at 140 ft. Reported yield 150 gpm. Texas Water Development Board observation well. 4/
* 402	do.	--	1964	150	8	150	do.	1,020	28.13	Oct. 14, 1965	T, E 5	Irr	Pump set at 140 ft. Reported yield 150 gpm. Gravel packed. Temp. 76°F.
801	Triangle Ranch	Jones Drilling Co.	1963	204	10 8	125 204	Khe	1,035	--	--	T, E 20	Irr	Completed from 175 to 204 ft. Pump set at 180 ft. Reported yield 550 gpm.
802	do.	do.	1963	220	8	220	do.	--	--	--	T, E 30	Irr	--
52-301	Leon Barton	N. L. Box Drilling Contractor	1957	118	7	118	Ktp	--	15 22.07	Oct. 21, 1959 Oct. 12, 1965	Sub, E	Irr	Completed from 27 to 115 ft. Pump set at 110 ft. Reported yield 300 gpm. Measured yield 142 gpm. Power and yield test on July 18, 1966. Gravel packed. 1/ 5/
* 302	Gayle Mahan	Steward Drilling Co.	1964	100	7	100	do.	--	29.1	Mar. 24, 1966	Sub, E 3	Irr	Reported yield 150 gpm. Measured yield 100 gpm. Power and yield test on July 10, 1967. Gravel packed. Temp. 68°F. 5/
303	do.	do.	1965	100	7	100	do.	1,345	32.46 29.24	Sept. 14, 1965 Mar. 26, 1969	Sub, E 5	Irr	Reported yield 100 gpm. Measured yield 150 gpm. Power and yield test on July 10, 1967. Gravel packed. Texas Water Development Board observation well. 4/ 5/
* 304	Joe Ben Koonce	J. T. Carson	1965	130	8	130	Ktp	--	32.58	Sept. 27, 1965	Sub, E 10	Irr	Completed from 45 to 62 and 100 to 126 ft. Reported yield 150 gpm. Measured yield 120 gpm. Power and yield test at sprinkler on July 19, 1966. Gravel packed. Temp. 70°F. 1/ 5/
305	do.	do.	1965	125	8	125	do.	--	41.93	do.	Sub, E 15	Irr	Completed from 47 to 60, 85 to 90, and 105 to 120 ft. Reported yield 200 gpm. Gravel packed. 1/
* 306	L. S. Singleton	B. G. Watson	1966	114	8	114	do.	1,369	--	--	Sub, E	Irr	Slotted from 30 to 114 ft. Gravel packed. Temp. 68°F.
603	S. E. Gray	N. L. Box Drilling Contractor	--	101	8	101	do.	--	53.12	Sept. 17, 1965	T, E 3	Irr	Pump set at 90 ft. Reported yield 100 gpm.
* 604	do.	Steward Drilling Co.	1962	80	8	80	do.	--	77.19	Sept. 16, 1965	Sub, E 3	Irr	Completed from 20 to 80 ft. Pump set at 72 ft. Gravel packed. Temp. 70°F.
53-201	Louis Bays	Terry Drilling and Supply Co.	1957	168	8	168	do.	1,345	92	Nov. 19, 1959	T, E 5	Irr	Completed from 128 to 168 ft. Pump set at 160 ft. Reported yield 75 gpm. Gravel packed.
* 202	Lloyd Bays	-- Heater	--	120	7	120	do.	1,345	53.64	Sept. 28, 1965	T, E 5	Irr	Pump set at 112 ft. Measured yield 67 gpm. Power and yield test on July 14, 1966. Temp. 69°F. 5/
203	Louis Bays	Jones Drilling Co.	--	177	7	177	do.	1,345	90.93 88.47	Sept. 28, 1965 Mar. 26, 1969	Sub, E 7-1/2	Irr	Completed from 72 to 97 and 158 to 172 ft. Pump set at 160 ft. Measured yield 137 gpm. Power and yield test on July 14, 1966. Gravel packed. Texas Water Development Board observation well. 1/ 4/ 5/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
JP-31-53-204	Lloyd Bays	-- Heeter	--	85	7	85	Khe	1,345	52.81	Sept. 28, 1965	N	N	--
205	do.	do.	--	80	6	80	do.	1,345	53.66	do.	T, E 2	Irr	Pump set at 72 ft.
206	do.	do.	--	132	5	132	Ktp	1,345	68.64	do.	N	N	
207	E. E. Hanson	--	--	140	7	140	do.	1,346	59.99 60.07	Sept. 28, 1965 Jan. 17, 1968	N	N	Texas Water Development Board observation well until 1968. Well plugged and abandoned. 3/ 4/
302	Lingleville School	Jones Drilling Co.	1954	428	4	428	P	1,515	--	--	C, E 3/4	P	Completed from 416 to 428 ft.
401	Larry Bays	Terry Drilling and Supply Co.	1957	136	6	136	Ktp	1,345	30	Sept. 16, 1965	T, E	N	Gravel packed.
402	Mrs. Ross Decker	N. L. Box Drilling Contractor	--	131	8	131	Ktp	1,332	--	--	T, E 5	Irr	Completed from 53 to 129 ft. Pump set at 110 ft. Reported yield 90 gpm.
403	J. H. Fair	do.	1962	161	8	161	do.	1,350	71.00	Sept. 15, 1965	Sub, E 20	Irr	Completed from 72 to 160 ft. Pump set at 150 ft. Reported yield 220 gpm. Measured yield 212 gpm. Power and yield test at sprinkler on July 14, 1966. Gravel packed. 3/
404	Hanson and Taylor	J. T. Carson	1965	160	8	160	Kho	1,338	51.75 51.30	Nov. 29, 1966 Mar. 26, 1969	Sub, E 30	Irr	Completed from 120 to 160 ft. Pump set at 157 ft. Estimated yield 300 gpm. Gravel packed. Texas Water Development Board observation well. 3/ 4/
405	do.	Lightfoot and McCrum	1964	141	8	141	Khe, Kho	1,330	54.43 47.92	Sept. 17, 1965 Mar. 24, 1966	--	Irr	Completed from 64 to 80, 83 to 98, and 121 to 135 ft. Reported yield 200 gpm. Gravel packed. 3/
406	Wayne Keith	J. T. Brown Water Well Drilling	1965	91	5	91	Ktp	1,310	50	Mar. 5, 1965	Sub, E 1	S	Completed from 50 to 91 ft. Pump set at 65 ft. Gravel packed. 3/
411	Mrs. Ross Decker	Lightfoot and McCrum	1966	157	8	157	do.	1,322	32	Apr. 12, 1966	Sub, E 15	Irr	Slotted from 43 to 50, 55 to 115 and 120 to 150 ft. Pumping level 132 ft at 150 gpm on Apr. 12, 1966. Power and yield test on July 10, 1967. Gravel packed. 3/ 5/
412	do.	do.	1966	169	8	169	do.	1,327	40	Apr. 16, 1966	Sub, E 20	Irr	Slotted from 46 to 120 and 130 to 160 ft. Pumping level 145 ft at 200 gpm on Apr. 16, 1966. Power and yield test on July 10, 1967. Gravel packed. 3/ 5/
501	Wayne Keith	Terry Drilling and Supply Co.	1952	115	7	--	do.	1,330	63.40 62.10	Aug. 26, 1965 Mar. 26, 1969	N	N	Texas Water Development Board observation well. Abandoned. 4/
502	do.	do.	1954	115	8	115	do.	1,325	64	Dec. 2, 1959	T, E 5	Irr	Reported yield 75 gpm.
503	B. W. Mathis	J. T. Brown Water Well Drilling	1963	177	7	177	do.	1,315	85.53 79.35	Aug. 26, 1965 Mar. 6, 1967	T, E 5	Irr	Completed from 75 to 108 and 123 to 170 ft. Pump set at 165 ft. Measured yield 57 gpm. Power and yield test on July 12, 1966. Gravel packed. Texas Water Development Board observation well. 3/ 4/ 5/
504	M. C. Jones	Terry Drilling and Supply Co.	1954	128	8	128	do.	1,320	60.85	Sept. 15, 1965	T, E 5	Irr	Pump set at 118 ft. Gravel packed.
* 505	do.	do.	1953	125	8	--	do.	1,332	67	Dec. 3, 1959	T, E 5	Irr	Pump set at 110 ft. Reported yield 50 gpm. Temp. 69°F.
506	Wayne Keith	--	--	115	8	--	do.	1,334	--	--	T, E 5	Irr	Pump set at 115 ft. Reported yield 65 gpm.
507	do.	Terry Drilling and Supply Co.	1954	120	8	--	do.	1,330	--	--	T, E 5	Irr	Reported yield 75 gpm.

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
JP-31-53-508	Wayne Keith	J. T. Brown Water Well Drilling	1965	135	7	135	Ktp	1,325	45	Apr. 8, 1965	T, E 5	Irr	Completed from 40 to 135 ft. Pump set at 125 ft. Reported yield 75 gpm. Gravel packed. 1/
509	Ray L. Baldwin	do.	1964	170	7	170	do.	1,300	--	--	T, E 5	Irr	Completed from 75 to 108 and 123 to 165 ft. Pump set at 160 ft. Reported yield 100 gpm. Gravel packed. 1/
510	B. W. Mathis	J. C. Humphries	1953	176	6	176	do.	1,310	--	--	T, E 5	Irr	Completed from 70 to 95 and 118 to 160 ft. Pump set at 165 ft. Reported yield 120 gpm. Gravel packed.
* 601	Ted Robbins	N. L. Box Drilling Contractor	--	317	8	310	Kbe	1,470	263 270.42	Nov. 19, 1959 Mar. 26, 1969	T, G 30	N	Completed from 265 to 305 ft. Gravel packed. Temp. 70°F. Texas Water Development Board observation well. 1/ 4/
710	E. E. Keith, Jr.	--	1955	130	7	130	Ktp	1,352	--	--	T, E 3	Irr	Completed from 70 to 130 ft. Pump set at 120 ft. Reported yield 50 gpm. Gravel packed.
711	do.	Terry Drilling and Supply Co.	1956	130	7	130	do.	1,345	--	--	T, E 3	Irr	Completed from 70 to 130 ft. Pump set at 120 ft. Gravel packed.
712	do.	J. C. Humphries	1953	120	5	120	do.	1,275	26	Dec. 2, 1959	T, E 5	Irr	Completed from 80 to 110 ft. Reported yield 80 gpm. Gravel packed.
713	do.	Terry Drilling and Supply Co.	1954	120	8	120	do.	1,275	28 106.32	Dec. 2, 1959 Aug. 25, 1965	T, E	Irr	Completed from 80 to 110 ft. Reported yield 100 gpm. Gravel packed.
714	do.	J. T. Brown Water Well Drilling	1965	78	5	78	do.	1,280	30 33.29	Apr. 14, 1965 Oct. 13, 1965	--	S	Slotted from 45 to 78 ft. Gravel packed. Cemented from 8 to 20 ft. 1/
* 715	R. E. House	N. L. Box Drilling Contractor	1959	113	7	113	do.	1,275	35	Dec. 2, 1959	Sub, E 2	Irr	Perforated from 28 to 33, 45 to 52, and 75 to 109 ft. Reported yield 60 gpm. Gravel packed. Temp. 69°F. 1/
716	do.	do.	1959	113	7	113	do.	1,275	60.20	Sept. 16, 1965	T, E 5	Irr	Perforated from 70 to 108 ft. Reported yield 22 gpm. Gravel packed. 1/
717	do.	J. C. Humphries	1952	96	7	96	do.	1,265	81.90 68.41	Sept. 16, 1965 July 5, 1966	Sub, E 1-1/2	Irr	Completed from 80 to 96 ft. Pump set at 92 ft. Reported yield 40 gpm. Measured yield 29.6 gpm. Power and yield test on July 12, 1966. Gravel packed. 5/
718	R. E. House	do.	1956	96	8	96	do.	1,260	35 25.93	Sept. 16, 1965 Mar. 26, 1969	Sub, E 1	Irr	Completed from 80 to 96 ft. Pump set at 80 ft. Reported yield 25 gpm. Measured yield 30 gpm. Power and yield test on July 12, 1966. Texas Water Development Board observation well. 4/ 5/
732	Don Ray Keith	Wilmer Ocie Davis	1967	127	8	127	do.	1,310	52	Apr. 15, 1967	Sub, E 7-1/2	Irr	Slotted from 45 to 127 ft. Pumping level 110 ft at 165 gpm. Pump set at 125 ft. Measured yield 93.1 gpm. Power and yield test at sprinkler on July 7, 1967. Gravel packed. 1/ 5/
733	Onie Keith	do.	1967	120	8	120	do.	1,280	50	Jan. 20, 1967	Sub, E 7-1/2	Irr	Slotted. Pumping level 100 ft at 165 gpm. Pump set at 115 ft. Power and yield test on July 6, 1967. Gravel packed. 1/ 5/
734	do.	--	--	--	--	--	do.	1,280	--	--	Sub, E 5	Irr	Power and yield test on July 6, 1967. 5/
801	B. T. Keith and P. E. Keith	N. L. Box Drilling Contractor	1956	143	8	143	do.	1,285	62	Dec. 1, 1959	T, E 5	Irr	Completed from 27 to 30, 61 to 64 and 114 to 139 ft. Pump set at 135 ft. Reported yield 80 gpm.
802	do.	J. C. Humphries	1953	143	6	143	do.	1,290	--	--	T, E	N	Pump set at 125 ft.

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	JP-31-53-803	J. P. Thiebaud	J. T. Brown Water Well Drilling	1965	101	7	101	do.	1,270	30	Aug. 8, 1965	T, E 5	Irr	Completed from 45 to 101 ft. Gravel packed. 1/
	804	Bill Keith	Lightfoot and McCrum	1966	132	8	132	Khe, Kho	1,285	65 53.93 57.50	Feb. 17, 1966 Mar. 31, 1966 Mar. 6, 1967	T, E	Irr	Slotted from 60 to 66 and 95 to 123 ft. Pump set at 125 ft. Measured yield 33 gpm. Power and yield test on July 6, 1967. Gravel packed. 1/ 2/ 5/
	805	B. W. Mathis	Joe Scott	--	123	8	123	Ktp	1,295	67.33 65.40	Aug. 31, 1966 Mar. 26, 1969	N	N	Reported yield 75 gpm when used in 1959. Texas Water Development Board observation well. 4/
*	806	Bill Keith	Lightfoot and McCrum	1966	180	8	80	Khe	1,285	55 51.90 53.28	Feb. 14, 1966 Mar. 31, 1966 Mar. 6, 1967	Sub, E	Irr	Slotted from 53 to 70 ft. Pump set at 70 ft. Measured yield 56 gpm and 71 gpm. Power and yield tests on July 12, 1966 and July 6, 1967. Gravel packed. Temp. 70°F. 1/ 5/
	807	F. T. Keith	do.	1966	135	7	135	Khe, Kho	1,270	55 48.88	Feb. 22, 1966 Mar. 24, 1966	Sub, E 5	Irr	Slotted from 50 to 68, 98 to 115, and 117 to 125 ft. Pump set at 125 ft. Gravel packed. 1/
	808	Bill Keith	do.	1967	134	8	134	do.	1,285	65	Apr. 15, 1967	Sub, E 7-1/2	Irr	Slotted from 62 to 67 and 107 to 123 ft. Measured yield 99 gpm. Power and yield test on July 6, 1967. 1/ 5/
	809	C. T. Keith	J. T. Brown Water Well Drilling	1967	135	8	135	Ktp	1,275	--	--	Sub, E 5	Irr	Slotted from 55 to 133 ft. Pump set at 125 ft. Measured yield 94.5 gpm. Power and yield test on July 7, 1967. Gravel packed. 1/ 5/
	901	Joe Little	do.	1964	228	7	228	do.	--	128	Oct. 12, 1965	Sub, E 5	Irr	Completed from 70 to 228 ft. Pump set at 170 ft. 1/
	54-601	W. L. Payton and Frakes	Jones Drilling Co.	1965	406	8	406	do.	1,415	47.35 157.0	Mar. 25, 1966 Mar. 9, 1967	N	N	Reported yield 270 gpm when used. Texas Water Development Board observation well. 4/
	602	do.	do.	1953	406	8	406	do.	1,410	--	--	T, E 20	Irr	Reported yield 160 gpm.
	603	do.	do.	1965	407	7	407	do.	1,405	--	--	T, E 25	Irr	--
	604	do.	do.	1962	328	4	328	Khe	1,410	280	Mar. 2, 1962	Sub, E 7-1/2	S	Completed from 320 to 328 ft. Pump set at 300 ft. 1/
	605	Stephenville Packing Co.	Doc McMillian Water Wells	1964	303	6	303	do.	1,400	--	--	C, E 1	Ind	Completed from 183 to 303 ft. Pump set at 185 ft. Reported yield 20 gpm. Gravel packed.
	606	Erath Garden of Memory	Jones Drilling Co.	1953	283	7	283	do.	1,380	8.11	Oct. 13, 1965	C, E 1	Irr	Completed from 263 to 283 ft.
*	801	Leander Kiker	do.	1955	387	8	387	Ktp	1,380	200 222.50	1960 Mar. 27, 1969	T, E 30	Irr	Pump set at 365 ft. Measured yield 200 gpm. Power and yield test on July 17, 1967. Temp. 72°F. Texas Water Development Board observation well. 4/ 5/
	55-101	Poston Farms	do.	1959	390	6	390	do.	1,340	--	--	T, E 15	S	Completed from 270 to 300 and 360 to 390 ft. Reported yield 125 gpm.
	102	B. W. Blankenship	do.	1957	327	8	327	do.	1,318	186.0	Oct. 8, 1965	T, G 30	Irr	Reported yield 270 gpm.
*	103	City of Stephenville	Texas Water Wells	1960	400	8	363	Khe, Kho	1,319	--	--	T, E 40	P	Screened from 245 to 270 and 300 to 360 ft. Pump set at 380 ft. Reported yield 200 gpm. Gravel packed. Cemented. 1/ 2/
	104	do.	Jones Drilling Co.	1956	402	10	400	Ktp	1,340	--	--	T, E 50	P	Completed from 250 to 275 and 350 to 390 ft. Pump set at 385 ft. 1/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	JP-31-55-105	City of Stephenville	Texas Water Wells	1960	392	16 8	234 363	Khe, Kho	1,300	133 223.70	June 2, 1961 Feb. 8, 1966	T, E 40	P	Screened from 236 to 266 and 294 to 360 ft. Pump set at 380 ft. Reported yield 200 gpm. Gravel packed. Cemented. 1/ 3/
	106	do.	Fort Worth Drilling Co.	1946	366	10	--	Ktp	1,297	--	--	T, E 40	P	Reported yield 100 gpm. Cemented. 1/
	107	do.	do.	1946	368	10	364	do.	1,302	219.37 246.80	Feb. 23, 1966 Mar. 27, 1969	N	N	Completed from 245 to 255 and 341 to 364 ft. Observation well for pumping test on JP-31-55-205. Cemented. Texas Water Development Board observation well. 1/ 2/ 3/ 4/
*	108	do.	C. Calloway	1943	370	10	--	do.	1,299	--	--	T, E 40	P	Cemented.
	109	do.	-- Hamilton	1944	375	10	--	do.	1,298	--	--	T, E 40	P	Pump set at 350 ft. Reported yield 250 gpm. Cemented.
	110	do.	do.	1944	375	10	--	do.	1,300	--	--	N	N	Reported yield 250 gpm when used. Cemented.
	111	do.	do.	1949	377	10	--	do.	1,345	266 265.10	Sept. 25, 1963 Feb. 8, 1966	T, E 40	P	Pump set at 360 ft. Reported yield 350 gpm. Cemented. 1/
	112	do.	do.	1949	391	--	--	do.	1,347	--	--	T, E 40	P	Pump set at 365 ft. Reported yield 375 gpm. Cemented. 1/
	113	do.	do.	1949	390	10	--	do.	1,325	258 247	Feb. 7, 1950 Sept. 25, 1963	T, E	P	Pump set at 370 ft. Reported yield 390 gpm. Cemented. 1/
	114	do.	Jones Drilling Co.	1953	391	16 10	90 391	do.	1,320	241 239.40	Sept. 25, 1963 Mar. 27, 1969	N	N	Reported yield 75 gpm when used. Texas Water Development Board observation well. 1/ 4/
	115	do.	Texas Water Wells	1959	402	18 10	216 400	Khe, Kho	1,350	265 260	June 3, 1959 Sept. 20, 1963	T, E 56	P	Perforated from 218 to 282 and 338 to 386 ft. Reported yield 200 gpm. Cemented. 3/
	201	Texas A&M University-Tarleton Experiment Station	Jones Drilling Co.	1960	400	8	--	Ktp	1,322	265	Oct. 27, 1960	T, E 20	Irr	Measured yield 120 gpm. Power and yield test on July 12, 1967. 3/
*	202	City of Stephenville	W. A. Walker	1924	600	10 8	-- --	do.	1,287	237 229.60	Sept. 20, 1963 Mar. 27, 1969	N	N	Observation well for pumping test on well JP-31-55-205. Texas Water Development Board observation well. 3/ 4/
*	203	do.	do.	1932	372	10	351	do.	1,287	--	--	T, E 30	P	Completed from 240 to 290 and 307 to 351 ft. Pump set at 340 ft. Temp. 72°F.
*	204	do.	J. B. Tatum	1938	351	12	--	do.	1,288	--	--	T, E 40	P	Reported yield 300 gpm. 1/
*	205	do.	E. E. Thate	1940	370	12 10	-- 351	do.	1,288	--	--	T, E 30	P	Perforated from 245 to 273, 276 to 290, and 307 to 351 ft. Pumping test in Feb. 1966. Pump set at 340 ft. Reported yield 250 gpm. Cemented. Temp. 72°F. 3/
	206	do.	Jones Drilling Co.	1953	511	10	400	do.	1,310	246	Sept. 20, 1963	T, E 50	P	Pump set at 380 ft. Reported yield 200 gpm.
*	207	do.	do.	1964	511	10 8	390 --	do.	1,305	269	June 23, 1964	T, E 40	P	Pump set at 350 ft. Reported yield 150 gpm. Temp. 70°F.
	208	Tarleton State College Farm	-- Jones	1918	519	6	519	do.	1,321	240 257.00	Jan. 25, 1947 Mar. 27, 1969	N	N	Texas Water Development Board observation well. 4/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	JP-31-55-209	Tarleton State College Farm	Texas Water Wells	1953	522	10 8 6	230 335 400	Khe, Kho	1,322	251 285	Mar. 11, 1953 July 28, 1964	T, E 15	Irr	Completed from 230 to 285 and 335 to 395 ft. Pumping level 318 ft at 200 gpm on Mar. 11, 1953. Pump set at 315 ft. Well drilled to 522 ft and plugged back to 400 ft. 3/
	301	H. S. Foster	Terry Drilling and Supply Co.	1954	520	7 5	434 513	Ktp	1,385	240 353.47	Dec. 16, 1959 Mar. 28, 1968	N	N	Completed from 112 to 116, 345 to 395, and 490 to 513 ft. Reported yield 170 gpm. Well caved in 93 ft from bottom and measures 427 ft. Texas Water Development Board observation well. 1/ 4/
	302	do.	--	1956	488	8	468	do.	1,335	--	--	T, C	Irr	Completed from 70 to 93, 310 to 355, and 424 to 468 ft. 1/
	303	Structural Plastics Co.	Jones Drilling Co.	1958	436	5	280	Khe	1,402	--	--	N	N	Abandoned.
*	304	Poston Farms	Terry Drilling and Supply Co.	1958	360	6	360	do.	1,381	--	--	T, E 25	Irr	Reported yield 80 gpm. Temp. 72°F.
	401	Wolfe Nurseries	Jones Drilling Co.	1959	403	8	403	Ktp	1,342	250.1	June 23, 1966	T, E 40	Irr	Pump set at 365 ft. Reported yield 300 gpm.
	402	Bob Love	Terry Drilling and Supply Co.	1954	343	12 8	101 343	Khe	1,384	--	--	T, Ng	Irr	Pump set at 325 ft. Reported yield 195 gpm. Measured yield 141 gpm on June 24, 1966. 1/
	403	Wolfe Nurseries	Jones Drilling Co.	1967	393	7	393	Ktp	1,375	200	July 1967	Sub, E 30	Irr	Pump set at 370 ft. Measured yield 150.4 gpm. Power and yield test at sprinkler on July 18, 1967. 5/
	404	Bob Love	do.	1956	350	--	--	do.	1,367	--	--	T, Ng	Irr	Reported yield 135 gpm.
	406	Wolfe Nurseries	do.	1951	389	8	389	do.	1,369	--	--	T, E 50	Irr	Pump set at 370 ft. Reported yield 300 gpm.
*	407	do.	do.	1965	408	--	--	do.	1,352	243.85 226.40	Oct. 7, 1965 Mar. 10, 1967	T, E 25	Irr	Pump set at 381 ft. Measured yield 171.5 gpm. Power and yield test on July 17, 1967. Temp. 70°F. 1/ 5/
	408	do.	do.	1960	404	7	404	do.	1,380	--	--	T, E 25	Irr	Pump set at 365 ft. Measured yield 141 gpm on July 17, 1967.
	502	City of Stephenville	Texas Water Wells	1966	393	10	378	Khe, Kho	1,270	--	--	T, E	P	Screened from 190 to 215, 224 to 236, 244 to 263, 312 to 327, and 333 to 368 ft. Cemented from 190 ft to surface.
	601	Gene Porter	Terry Drilling and Supply Co.	1953	261	7	261	Khe	1,278	245.44 245.34	Oct. 26, 1965 Apr. 4, 1966	T, E 10	N	Pump set at 240 ft. Reported yield 75 gpm. Texas Water Development Board observation well. 4/
*	701	Fitzgerald Nursery	Jones Drilling Co.	--	290	--	290	do.	1,336	220	1960	C, E 3	Irr	Pump set at 260 ft. Reported yield 30 gpm.
	702	do.	do.	--	290	5	290	do.	1,349	245.40	Oct. 14, 1965	Sub, E 3	D, Irr	Reported yield 20 gpm.
	801	City of Stephenville	Texas Water Wells	1965	454	10	420	Khe, Kho	1,282	232.09 214.55	Feb. 24, 1966 Mar. 26, 1969	T, E 40	P	Screened from 215 to 240, 262 to 280, and 334 to 390 ft. Pumping level 280 ft at 227 gpm on Feb. 23, 1966. Pump set at 370 ft. Reported yield 225 gpm. Gravel packed. Cemented. Texas Water Development Board observation well. 1/ 3/ 3/ 4/
*	802	do.	do.	1964	420	10	420	Ktp	1,259	212	Nov. 11, 1964	T, E 40	P	Screened from 215 to 240, 262 to 280, and 324 to 390 ft. Pump set at 350 ft. Reported yield 250 gpm. 2/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	JP-31-55-803	Mrs. Fowler	Jones Drilling Co.	1963	360	6	360	Ktp	1,291	235 221.05	July 3, 1963 Mar. 26, 1969	Sub, E 20	Irr	Completed from 240 to 360 ft. Pump set at 340 ft. Measured yield 184.6 gpm. Power and yield test on Aug. 15, 1967. Texas Water Development Board observation well. 1/ 4/ 5/
	804	City of Stephenville	Texas Water Wells	1964	397	--	--	--	1,240	--	--	N	N	Drilled as a public supply test hole. 2/
*	61-202	Claude Kirkland	N. L. Box Drilling Contractor	1953	190	8	184	Ktp	1,303	80	Dec. 1, 1959	T, E 7-1/2	N	Completed from 82 to 104 and 162 to 183 ft. Pumping level 94 ft at 170 gpm on Dec. 1, 1959. Pump set at 125 ft. Gravel packed.
*	301	Thurston House	do.	1957	188	8	188	do.	1,315	97 98.30	Dec. 1, 1959 Mar. 26, 1969	T, E 20	Irr	Completed from 96 to 188 ft. Pump set at 125 ft. Reported yield 338 gpm. Measured yield 173 gpm. Power and yield test at sprinkler on July 13, 1966. Temp. 70°F. Texas Water Development Board observation well. 4/ 5/
*	601	Everett Colburn	J. C. Humphries	1953	400	8	400	Khe	1,525	--	--	Sub, E 10	Irr	Completed from 380 to 400 ft. Pump set at 356 ft. Reported yield 125 gpm. Measured yield 64.8 gpm. Power and yield test on July 12, 1967. Temp. 70°F. 5/
*	602	do.	do.	1953	380	6	380	do.	1,525	350	Sept. 29, 1965	Sub, E 5	D, S	Pump set at 356 ft. Reported yield 80 gpm. Temp. 70°F.
*	62-101	City of Dublin	Layne Texas Co.	1931	436	8 6	250 436	Ktp	1,452	265	1941	T, E 15	P	Perforated. Pump set at 355 ft. Reported yield 90 gpm.
*	102	do.	W. A. Walker	1915	350	12 8	50 350	Khe	1,452	--	--	T, E 15	P	Slotted from 325 to 350 ft. Pump set at 330 ft. Reported yield 80 gpm.
*	103	do.	R. A. Adams and Son	1946	412	12 8	80 412	Ktp	1,425	100	Nov. 12, 1959	T, E 15	P	Completed from 325 to 350 and 385 to 412 ft. Pump set at 385 ft. Reported yield 50 gpm.
*	104	do.	Texas Water Wells	1955	469	14 10	160 469	do.	1,500	198.01 331.2	Mar. 24, 1966 Apr. 2, 1969	T, E 40	P	Completed from 300 to 386 and 396 to 466 ft. Pump set at 435 ft. Texas Water Development Board observation well. 1/ 2/ 4/
*	105	do.	do.	1949	476	14 10	325 476	Khe, Kho	1,495	171.77	Mar. 25, 1968	T, E 50	P	Completed from 330 to 376, 380 to 395, and 420 to 474 ft. Pump set at 436 ft. Reported yield 250 gpm. Cemented. 2/
	201	F. A. Knape	Jones Drilling Co.	1964	408	8 7	345 395	Ktp	1,390	--	--	T, C	Irr	Completed from 279 to 345 and 345 to 395 ft. Pump set at 320 ft. Reported yield 343 gpm. 1/
	301	Cottonwood Baptist Church	J. T. Brown Water Well Drilling	1964	256	4	256	Khe	1,352	221	Oct. 6, 1965	Sub, E 1	P	Completed from 236 to 256 ft. 1/
*	401	Norman Martin	N. L. Box Drilling Contractor	--	109	7	65	Kp	1,470	--	--	T, E 2	Irr	Estimated yield 60 gpm. Temp. 70°F.
*	501	Liston Wiggins	Texas Irrigation Sales, Inc.	1965	436	6	436	Khe	1,375	216 209.66	Sept. 7, 1965 Oct. 8, 1965	Sub, E 5	Irr	Completed from 196 to 246 ft. Pump set at 300 ft. Measured yield 48 gpm. Power and yield test on July 17, 1967. Gravel packed. Temp. 72°F. 1/ 2/ 5/
*	63-101	D. B. Cook	Jones Drilling Co.	1964	390	8	390	do.	1,350	--	--	T, G 30	Irr	Completed from 295 to 310, 315 to 335, and 340 to 380 ft. Pump set at 350 ft. Reported yield 302 gpm. Temp. 70°F.
	102	R. D. Stephens	Texas Irrigation Sales, Inc.	1966	440	12	432	Kgr, Ktp	1,350	--	--	T, G 125	Irr	Slotted from 130 to 430 ft. Pumping level 360 ft at 446 gpm. Pump set at 437 ft. Gravel packed. 3/
	301	J. B. McConnell	Bill Wolf and Son	1965	202	10	202	Khe	1,124	51.21 96.69	Oct. 15, 1965 Mar. 26, 1969	T, E 30	Irr	Completed from 118 to 202 ft. Pump set at 184 ft. Reported yield 200 gpm. Texas Water Development Board observation well. 1/ 4/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* JP-31-64-301	M. C. Lowry	Terry Drilling and Supply Co.	--	353	7 5	52 353	Khe	1,152	260.96 258.90	Sept. 16, 1968 Mar. 26, 1969	Sub, E 1	D	Temp. 72°F. Texas Water Development Board observation well. 1/ 4/
402	L. E. Adams	Bud and Rusty Roberson Well Drilling	1963	281	6	281	do.	1,159	--	--	Sub, E 10	Irr	Completed from 261 to 281 ft. Pump set at 270 ft. Reported yield 105 gpm.
* 32-41-103	Stanley Allen	A. L. Rodgers	1962	146	7	146	Khe, Kho	865	19.78	Oct. 25, 1965	Sub, E 5	Irr	Completed from 35 to 45 and 105 to 140 ft. Pump set at 131 ft. Measured yield 120 gpm. Power and yield test on Aug. 17, 1967. Gravel packed. Temp. 69°F. 1/ 5/
49-501	E. L. Huffman	Jones Drilling Co.	1963	512	8 4	512 512	Kp, Ktp	1,130	45 262.19	Nov. 15, 1963 Mar. 26, 1969	T, G 50	Irr	Completed from 45 to 50, 304 to 404, and 451 to 512 ft. Pump set at 330 ft. Texas Water Development Board observation well. 1/ 4/
502	do.	do.	1963	492	--	--	Ktp	1,075	220.30	Oct. 15, 1965	T, C 50	Irr	Pump set at 330 ft. 1/
41-08-202	George Holliday	Texas Irrigation Sales, Inc.	1965	--	12	--	do.	1,035	114.22 113.86	Oct. 25, 1965 Mar. 26, 1969	T, G 20	Irr	Gravel packed. Texas Water Development Board observation well. 4/

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I
4/ For water-level measurements, see Table 4.
5/ For power and yield tests on wells, see Table 10, Volume I.

ERATH COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
JP-31-38-801	Coastal States Gas Producing Co.	Davis No. 1	1960	3,509	1,261	E
44-906	Foster Brothers	C. P. Putty No. 1	1948	2,935	1,411	S
47-403	W. H. Woods, Trustee	R. J. Sikes No. 1	1947	4,300	1,370	E
48-803	McCarthy Oil and Gas Corp.	W. C. Hendricks No. 1	1946	7,166	1,041	E
53-102	Leonard Refineries	J. E. Clayton No. 1	1948	3,067	1,373	E
413	Taxoline Co. Inc.	Jones No. 1	1965	3,580	1,445	E
602	Frank Buttram	Whitfield No. 1	1951	3,750	1,485	E
54-401	Arkansas - Louisiana Gas Co.	Treasure Rector No. 1	1962	3,899	1,493	E
802	Dale Smith and Louisiana Machine Co.	J. L. Kiker No. 1	1952	4,135	1,377	D,E
62-402	Haynes B. Ownby Drilling Co.	Robert C. Crouch No. 1	1949	3,859	1,516	E
64-202	Burgin Oil Co.	Mrs. M. W. Robertson No. 1	1956	2,365	1,137	E
501	do.	Nelms No. 1	1956	2,775	1,230	E
801	American Liberty Oil Co.	D. A. Fellers No. 1	1949	4,440	1,098	E
901	Humble Oil and Refining Co.	Wright No. 1	1956	2,479	1,149	E
32-57-403	Shell Development Co.	L. W. Weeks No. 1	—	165	1,193	S

Table 3.—Drillers' Logs of Selected Wells

Well JP-31-39-502

Owner: — Fruehauf
Driller: Terry Drilling and Supply Co.

	THICKNESS (FEET)	DEPTH (FEET)
Mixed Soil	32	32
Red bed	10	42
Gray shale	24	66
Hard sand	29	95
Water sand	15	110
Sand and gravel	5	115
Red bed	20	135
Yellow shale	10	145
Gray shale	15	160
Sand rock (very hard)	15	175
Blue shale	15	190
Sandy shale, blue	19	209
Sand	23	232
Blue shale	21	253
Sandy lime	13	266
Sandy shale	7	273
Blue shale	5	278
Sandy shale, blue	4	282
Blue shale, hard	9	291
Broken lime shells	17	308

Well JP-31-39-901

Owner: Morgan Mill Water Supply Corp.
Driller: Jack Leonard Drilling Co.

Topsoil	3	3
Gray sandy clay	13	16
Gray sand	6	22
Coarse sand and gravel	9	31
Red bed	4	35

Well JP-31-39-902

Owner: Morgan Mill Water Supply Corp.
Driller: Jack Leonard Drilling Co.

Topsoil	2	2
Gray sandy clay	13	15
Small gravel	5	20

Well JP-31-39-902—Continued

Sand and gravel	4	24
Red shale	8	32

Well JP-31-44-901

Owner: Richard Krapf
Driller: Terry Drilling and Supply Co.

Mixed soil	7	7
Caliche	24	31
Sand rock	32	63
Water sand	8	71
Blue shale	15	86
Lime shells	9	95
Sand and gravel (hole full of water)	44	139
Blue shale	19	158
Sand rock	6	164
Blue shale	25	189
Red bed	30	219

Well JP-31-46-203

Owner: Phillips Petroleum Co.
Driller: Jones Drilling Co.

Soil	3	3
Red clay	2	5
Yellow clay	23	28
Sand and shale - seep water	64	92
Blue shale	44	136
Hard lime	36	172
Sand and shale	58	230
Sand	60	290
Water sand	48	338
Red clay	34	372
Water sand	22	394
Shale	3	397

Well JP-31-46-204

Owner: Phillips Petroleum Co.
Driller: Jones Drilling Co.

Caliche	3	3
Clay	27	30

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

Well JP-31-46-204—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Sand - little water	65	95
Blue shale	35	130
Lime	40	170
Sandy shale	60	230
Sand	57	287
Sand and gravel - water	50	337
Red bed	33	370
Trinity water sand	25	395
Shale	1	396

Well JP-31-46-901

Owner: L. L. Hopke
Driller: Jones Drilling Co.

Sand and clay	40	40
Water sand	5	45
Hard lime	105	150
Lime and shale	120	270
Shale	27	297
Water sand (Paluxy)	77	374
Lime and shale	14	388
Water sand (Trinity)	27	415
Shale	5	420
Water sand	10	430
Shale	5	435

Well JP-31-47-402

Owner: Kenneth Rucker
Driller: Jones Drilling Co.

Topsoil	1	1
Soil	2	3
Lime rock	12	15
Red bed	29	44
Blue shale	37	81
Sandy shale	32	113
Lime rock	71	184
Blue shale	46	230
Red bed	29	259
Sticky shale	42	301
Limestone	56	357

Well JP-31-47-402—Continued

Blue shale	25	382
Water gravel	8	390
Water	2	392

Well JP-31-47-701

Owner: Raymond Jarrett
Driller: Jones Drilling Co.

Soil	2	2
Clay	3	5
Yellow clay	15	20
Gray shale	40	60
Blue shale	11	71
Gray shale	4	75
Blue shale	90	165
Red shale	10	175
Gray shale	5	180
Red bed	12	192
Blue shale	11	203
Sandy shale	17	220
Pack sand (water show)	13	233
Sand (Paluxy)	50	283
Blue shale	15	298
Broken lime shells	4	302
Red bed	18	320
Sand (Travis Peak)	32	352
Red bed	3	355

Well JP-31-52-301

Owner: Leon Barton
Driller: N. L. Box Drilling Contractor

Sand, clay, and sandstone	27	27
Water gravel	11	38
White clay and sand	8	46
Tight gravel	12	58
Tight sand and white clay	12	70
Coarse sand	10	80
Red and yellow clay	15	95

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-52-301—Continued		
Coarse sand and gravel	17	112
Yellow clay	6	118
Well JP-31-52-304		
Owner: Joe Ben Koonce Driller: J. T. Carson		
Soil	2	2
Clay, red	8	10
Yellow clay	35	45
Sand and gravel - water	17	62
Sandy shale	28	90
Red shale	10	100
Gravel - water	22	122
Sand - water	4	126
Blue shale	4	130
Well JP-31-52-305		
Owner: Joe Ben Koonce Driller: J. T. Carson		
Sand	20	20
Shale	27	47
Sand - water	13	60
Shale	20	80
Red shale	5	85
Sand	5	90
Red shale	15	105
Sand - water	15	120
Blue shale	5	125
Well JP-31-53-203		
Owner: Louis Bays Driller: Jones Drilling Co.		
Surface	5	5
Red clay	10	15
Chalky shale	15	30
Sticky shale	9	39
Yellow clay	5	44
Sand and clay	7	51
Sand, dry	18	69
Red bed	3	72
Sand	25	97
Water gravel	13	110
Red bed and shale	12	122
Red bed	8	130
Sand	6	136
Red bed	22	158
Sand and water gravel	14	172
Red bed	5	177
Well JP-31-53-404		
Owner: Hanson and Taylor Driller: J. T. Carson		
Sand	30	30
Gravel	20	50
Gravel	15	65
Water gravel	25	90
Sand	10	100
Water gravel	40	140
Sand and gravel	10	150
Blue shale	10	160
Well JP-31-53-405		
Owner: Hanson and Taylor Driller: Lightfoot and McCrum		
Soil	3	3
Sandy clay	3	6
Sand	34	40
Blue shale	2	42
Sand and gravel	22	64
Gravel (water)	15	79
Blue shale	4	83
Gravel	15	98
Sandy shale	3	101
Shale, blue and green	9	110
Shale, red	11	121
Gravel (water)	14	135
Shale, blue	6	141

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

Well JP-31-53-406

Owner: Wayne Keith
Driller: J. T. Brown Water Well Drilling

	THICKNESS (FEET)	DEPTH (FEET)
Brown topsoil	1	1
Red clay	2	3
Yellow clay	22	25
White clay and sand	7	32
Sand rock	10	42
White sand	8	50
Gravel and sand	27	77
Red clay	14	91

Well JP-31-53-411

Owner: Mrs. Ross Decker
Driller: Lightfoot and McCrum

Sand	1	1
Blue and yellow clay	7	8
Sand and gravel	35	43
Water gravel	7	50
Blue clay	5	55
Water sand and gravel	60	115
Red and blue clay	5	120
Sand	10	130
Sand and blue sandy clay	17	147
Sandy lime	4	151
Blue shale	6	157

Well JP-31-53-412

Owner: Mrs. Ross Decker
Driller: Lightfoot and McCrum

Sand	1	1
Blue and red clay	8	9
Sand and gravel	37	46
Water sand and gravel	74	120
Blue and red clay	10	130
Sand and blue clay	30	160
Blue shale	9	169

Well JP-31-53-503

Owner: B. W. Mathis
Driller: J. T. Brown Water Well Drilling

	THICKNESS (FEET)	DEPTH (FEET)
Red clay	6	6
Brown sand	2	8
Blue clay	5	13
White sand and blue clay	7	20
Blue clay and lime rock	12	32
White sand	8	40
Sand, gravel, clay clods	11	51
Sand and small gravel	5	56
Gravel and sand	29	85
Water gravel	11	96
Gravel and blue clay clods	6	102
Red bed	6	108
Gravel, sand, and sticky clay	30	138
Water gravel and sand	32	170
Yellow, green, and red clay	7	177

Well JP-31-53-508

Owner: Wayne Keith
Driller: J. T. Brown Water Well Drilling

Top, brown sand	2	2
Red clay	5	7
Yellow clay	18	25
Yellow clay and gravel	5	30
White sand	10	40
White sand and gravel	22	62
White sand, gravel, and water	13	75
Sand rock	8	83
White sand and gravel	42	125
Red and green clay	10	135

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

Well JP-31-53-509

Owner: Ray L. Baldwin
Driller: J. T. Brown Water Well Drilling

	THICKNESS (FEET)	DEPTH (FEET)
Brown sand	1	1
Red clay	6	7
White clay and gravel	25	32
White sand	11	43
White sand and gravel	17	60
Blue clay clods and gravel	8	68
White sand and gravel	12	80
Water gravel and sand	3	83
Water gravel and green clods	29	112
Red clay	28	140
Gravel, green and blue clods	25	165
Brown clay	5	170

Well JP-31-53-601

Owner: Ted Robbins
Driller: N. L. Box Drilling Contractor

	THICKNESS (FEET)	DEPTH (FEET)
Top, sand	4	4
White sand	5	9
Yellow clay	7	16
Blue shale	5	21
Yellow and white clay	24	45
Gray sand and limestone pack	16	61
White lime rock	9	70
Blue and gray shale	60	130
Dark gray clay	30	160
Dark gray sand	20	180
Black sand	32	212
Gray sand	53	265
Sand and gravel	32	297
Red clay	9	306
Sand, gravel, and blue clay	11	317

Well JP-31-53-714

Owner: S. E. Keith, Jr.
Driller: J. T. Brown Water Well Drilling

	THICKNESS (FEET)	DEPTH (FEET)
Top, brown sand	2	2
Red clay	4	6
Yellow clay	19	25
Brown sand and gravel	7	32
Gravel	10	42
White sand, gravel, and clods	14	56
Red clay	22	78

Well JP-31-53-715

Owner: R. E. House
Driller: N. L. Box Drilling Contractor

	THICKNESS (FEET)	DEPTH (FEET)
Clay	3	3
Sand and gravel	17	20
Sandstone	3	23
Sand and gravel (little water) 28 to 32 ft	9	32
Sand and clay	13	45
Fine water sand (water 20 gpm)	5	50
Lime	3	53
Red bed	22	75
Lime	11	86
Coarse sand	23	109
Yellow clay	4	113

Well JP-31-53-716

Owner: R. E. House
Driller: N. L. Box Drilling Contractor

	THICKNESS (FEET)	DEPTH (FEET)
Clay	3	3
Sand and gravel	29	32
Shells, sand, and clay	14	46
Red bed	8	54
Light gravel	5	59
Red bed and tight sand	11	70
Fine sand	10	80
Coarse sand	10	90

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-53-716—Continued		
Gravel	17	107
Yellow and red clay	6	113
Well JP-31-53-732		
Owner: Don Ray Keith Driller: Wilmer Ocie Davis		
Surface soil	3	3
Sandy clay	17	20
Dry sand and gravel	25	45
Water sand and gravel	8	53
Hard, gray sand	12	65
Red shale	5	70
Gray shale	10	80
Red shale	15	95
Water sand and gravel	30	125
Red clay	2	127
Well JP-31-53-733		
Owner: Onie Keith Driller: Wilmer Ocie Davis		
Red sandy shale	8	8
Quicksand	17	25
Water sand	5	30
Gray, sandy shale	15	45
Gray, sandy lime	10	55
Red shale	45	100
Gray, sandy shale	5	105
Water sand	10	115
Yellow shale	5	120
Well JP-31-53-803		
Owner: J. P. Thiebaud Driller: J. T. Brown Water Well Drilling		
Brown sand	4	4
White sand	4	8
Red clay	12	20
White sand	4	24
Blue rock	3	27
Brown sand	8	35
White sand	15	50
Red clay	10	60
Trinity gravel	30	90
Brown clay	11	101
Well JP-31-53-804		
Owner: Bill Keith Driller: Lightfoot and McCrum		
Black soil	5	5
Sand and sandy lime	3	8
Sandy, blue clay	12	20
Sand and gravel	8	28
Blue green and yellow clay	3	31
Sandy clay and gravel	9	40
Sand and gravel	20	60
Water sand	6	66
Red bed	32	98
Sand and gravel (water)	25	123
Blue shale	9	132
Well JP-31-53-806		
Owner: Bill Keith Driller: Lightfoot and McCrum		
Blacksoil	4	4
Blue and red clay	13	17
Gravel	2	19
Sand and gravel	34	53
Water gravel	14	67
Red bed	38	105
Sand	7	112
Blue and red clay	38	150
Sand (hard)	5	155
Blue and yellow clay	5	160
Blue shale	20	180

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

Well JP-31-53-807

Owner: P. T. Keith
Driller: Lightfoot and McCrum

	THICKNESS (FEET)	DEPTH (FEET)
Soil	3	3
Sandy clay	7	10
Sand	40	50
Water sand and gravel	18	68
Red bed	30	98
Sand and gravel	17	115
Blue and green clay	2	117
Sand and gravel	8	125
Yellow and blue clay	10	135

Well JP-31-53-808

Owner: Bill Keith
Driller: Lightfoot and McCrum

Sand	2	2
Red clay	8	10
Sand and gravel	52	62
Gravel (water)	5	67
Yellow clay	2	69
Red bed	35	104
Blue and yellow clay	2	106
Sand	5	111
Sand and gravel	12	123
Yellow and blue clay	11	134

Well JP-31-53-809

Owner: C. T. Keith
Driller: J. T. Brown Water Well Drilling

Brown sand	2	2
Red clay	6	8
Brown clay and sand	10	18
White sand	27	45
Gravel	20	65
Green clay	5	70
White clay clods and sand	15	85
Red clay	10	95
Brown clay and sand	10	105
Red clay	10	115
Brown clay clods and sand	5	120
Brown clay	15	135

Well JP-31-53-901

Owner: Joe Little
Driller: J. T. Brown Water Well Drilling

Brown topsoil	3.5	3.5
Yellow clay, gravel, and sand	14.5	18
White soapstone clods	13	31
Yellow sand	25	56
Dark brown sand	5	61
Blue clay	9	70
Dark gray sand	18	88
Red and green clay	13	101
White sand	13	114
Travis Peak gravel and sand	114	228

Well JP-31-54-604

Owner: W. L. Payton and Frakes
Driller: Jones Drilling Co.

Topsoil	1	1
Subsoil	5	6
Sandy soil	14	20
Sandy shale	40	60
Top water	5	65
Blue shale	25	90
Lime rock	140	230
Sandy shale	70	300
Water sand	10	310
Water gravel	15	325
No record	3	328

Well JP-31-54-802

Owner: J. L. Kiker No. 1
Driller: Dale Smith and Louisiana Machine Co.
(Complete log not shown)

Soil	6	6
Clay	6	12

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-54-802—Continued		
Sand	5	17
Shale, sandy	68	85
Shale, gray	105	190
Shale, sandy	5	195
Wood logs	11	206
Shale, sandy	19	225
Sand	8	233
Shale, red	10	243
Shale, sandy	12	255
Sand, gravel, water	36	291
Shale, brown	4	295
Shale, blue	5	300
Sand	15	315
Shale, red	5	320
Sand, hard, red, water	50	370
Gravel	6	376
Shale	66	442
Gravel and sand	11	453
Shale	2	455
Gravel, sand, and shale	17	472
Shale	100	572
Well JP-31-55-103		
Owner: City of Stephenville Driller: Texas Water Wells		
Ground level	3.5	3.5
Surface	3.5	7
Clay	5	12
Caliche and clay	8	20
Sand with lime streaks	20	40
Shale and lime streaks	30	70
Lime, sand, and shale streak	174	244
Sand - some gravel	24	268
Rock	1	269
Red bed	31	300
Sand - fine gravel	61	361
Shale clay	16	377
Lime and clay	23	400
Well JP-31-55-104		
Owner: City of Stephenville Driller: Jones Drilling Co.		
Soil	5	5
Sandy loam	10	15
Broken lime and shale	166	181
Red bed	2	183
Red bed and shale	14	197
Sandy shale	50	247
Water sand	40	287
Water gravel	3	290
Sandy shale	29	319
Gumbo clay	6	325
Blue shale	20	345
Gumbo clay	4	349
Red and blue shale	16	365
Sandy shale	13	378
Water sand and gravel (Trinity)	22	400
Shale	2	402
Well JP-31-55-105		
Owner: City of Stephenville Driller: Texas Water Wells		
Ground level	3.5	3.5
Surface	4.5	8
Rock	1	9
Caliche, clay	12	21
Rock	2	23
Caliche, clay, rock	27	50
Sand and clay	5	55
Rock, clay	10	65
Sand, clay	10	75
Sand, rock	5	80
Rock, clay	5	85
Shale, lime	75	160
Shale streaks, red bed	20	180
Sand, shale streaks	28	208
Sand, shale, clay	22	230
Sand, clay	20	250

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-55-105—Continued		
Shale, clay	20	270
Shale, red clay	10	280
Red bed	20	300
Sand	20	320
Sand, shale	10	330
Sand, gravel	31	361
Clay and lime	31	392
Well JP-31-55-106		
Owner: City of Stephenville Driller: Fort Worth Drilling Co.		
Shale, blue	20	20
Lime	10	30
Shale, blue	5	35
Lime	20	55
Lime, white	15	70
Lime, hard	10	80
Shale, gray	5	85
Lime, white	21	106
Shale, blue	2	108
Lime, white	7	115
Shale, brown	5	120
Lime, white	15	135
Shale, blue	5	140
Lime	10	150
Shale, blue	20	170
Shale, sandy	44	214
Sand	23	237
Water	7	244
Sand	11	255
Shale, blue	15	270
Shale, sandy	20	290
Shale, blue	5	295
Shale, sandy	20	315
Shale, blue	26	341
Sand	4	345
Sand	19	364
Shale, blue	2	366
Well JP-31-55-107		
Owner: City of Stephenville Driller: Fort Worth Drilling Co.		
Yellow	20	20
Lime	5	25
Blue shale	5	30
Lime	5	35
Blue shale	20	55
White lime	25	80
Brown, hard lime	5	85
Gray shale	18	103
White lime	2	105
Blue shale	3	108
White lime	7	115
Brown shale	5	120
White lime	40	160
Sandy shale	54	214
Sand	23	237
Water	21	258
Blue shale	2	260
Red shale	10	270
Sandy shale	20	290
White lime	5	295
Sandy shale	20	315
Blue shale	5	320
Red shale	5	325
Sand	10	335
Blue shale	10	345
Water sand	15	360
Red shale	8	368
Well JP-31-55-111		
Owner: City of Stephenville Driller: — Hamilton		
Soil	7	7
Lime	2	9
Caliche	21	30
Blue shale	55	85
Water	5	90

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-55-111—Continued		
Lime	80	170
Shale	5	175
Red bed	2	177
Shale	78	255
Lime	5	260
Shale	10	270
Water sand	35	305
Red shale	5	310
Sandy shale	20	330
Red shale	25	355
Water sand	22	377
Well JP-31-55-112		
Owner: City of Stephenville Driller: — Hamilton		
Sand	3	3
Red shale	7	10
Caliche	15	25
Blue shale	18	43
Lime and shale	142	185
Red bed	5	190
Shale	5	195
Lime	5	200
Shale	30	230
Sand and shale	30	260
Lime	2	262
Water sand	23	285
Shale	60	345
Sandy lime	12	357
Red shale	20	377
Water sand	11	388
Brown shale	3	391
Well JP-31-55-113		
Owner: City of Stephenville Driller: — Hamilton		
Soil	8	8
Lime	2	10
Caliche	20	30
Lime	23	53
Shale	7	60
Lime and shale	110	170
Shale	10	180
Red bed	5	185
Lime	10	195
Shale	10	205
Caliche	3	208
Blue shale	7	215
Lime	10	225
Water sand	10	235
Shale	10	245
Water sand	35	280
Shale	5	285
Red bed	10	295
Red and blue shale	50	345
Sandy lime	15	360
Sand	30	390
Well JP-31-55-114		
Owner: City of Stephenville Driller: Jones Drilling Co.		
Sandy loam	5	5
Sandy clay	10	15
Broken lime and shale (Glen Rose)	166	181
Red bed	2	183
Red bed and shale streaks	14	197
Sandy shale, sticky	50	247
Water sand (Paluxy)	40	287
Water gravel	3	290
Sandy shale	29	319
Gumbo, red, sticky	6	325
Blue shale	20	345
Gumbo, red, sticky	4	349
Red and blue shale	16	365
Sand and gravel	3	368
Blue shale	23	391

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

Well JP-31-55-204

Owner: City of Stephenville
Driller: J. B. Tatum

	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	6	6
Clay	6	12
Lime	2	14
Shale	21	35
Lime	7	42
Sand and water	3	45
Shale	11	56
Lime	4	60
Broken lime	30	90
Shale	8	98
Shale	17	115
Broken lime	23	138
Shale	10	148
Red bed	4	152
Shale	16	168
Lignite	2	170
Dry sand	10	180
Red rock	4	184
Hard sand	26	210
Water	5	215
Shale	5	220
Dry sand	20	240
Clay and sand	33	273
Red bed	3	276
Sand and water	14	290
Blue shale	10	300
Red bed	7	307
Sand and gravel	44	351

Well JP-31-55-301

Owner: H. S. Foster
Driller: Terry Drilling and Supply Co.

	THICKNESS (FEET)	DEPTH (FEET)
Topsoil and rock	3	3
Brown rock	19	22
Broken lime and blue shale	23	45
White lime	5	50
Green shale	4	54

Well JP-31-55-301—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Red bed	6	60
Brown shale	15	75
Red bed	10	85
Sandy shale	27	112
Sand - water	4	116
Broken lime and blue shale	19	135
Blue shale	8	143
Broken lime and blue shale	5	148
Shale conglomerate	17	165
Broken lime	10	175
Sandy shale	13	188
Blue gumbo shale	7	195
Lime rock - hard	54	249
Gumbo shale, blue	1	250
Lime rock and blue shale	50	300
Sandy shale	15	315
Sand, dry	10	325
Sandy shale	17	342
Sand and shale	3	345
Sand, water	50	395
Sand and lime	10	405
Lime and red sand	15	420
Lime, gravel	15	435
Sand	15	450
Lime rock, shale	20	470
Red sand and lime	20	490
Water sand	7	497
Gravel, water	16	513
Red bed	7	520

Well JP-31-55-302

Owner: H. S. Foster
Driller: Unknown

	THICKNESS (FEET)	DEPTH (FEET)
Surface	5	5
Caliche	15	20
Dry Sand	10	30
Sand rock	22	52

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-55-302—Continued		
Water sand	15	67
Lime	6	73
Blue shale	20	93
Sandy lime, water	11	104
Blue shale	4	108
Lime	10	118
Sandy shale	7	125
Sandy lime	15	140
Blue shale	5	145
Lime, hard	6	151
Shale and lime	61	212
Hard lime	28	240
Dry sand	5	245
Sandy lime	5	250
Blue shale	7	257
Red bed	2	259
Sandy, blue shale	21	280
Sand and water	25	305
Shale	5	310
Sand and water	25	335
Shale	5	340
Sand	30	370
Sand, gravel, and water	15	385
Sandy lime	23	408
Sandy shale	8	416
Sandy shale	4	420
Red shale	4	424
Water sand	36	460
Sand and gravel	17	477
Red bed	11	488
Well JP-31-55-402		
Owner: Bob Love Driller: Terry Drilling and Supply Co.		
Topsoil and clay	7	7
Caliche	33	40
Sand rock, hard	3	43
Water sand	3	46
Blue shale	4	50

	THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-55-402—Continued		
Blue shale, sandy (increase in water)	10	60
Lime, hard	14	74
Blue shale	16	90
Blue shale, hard	11	101
Blue shale	69	170
Blue shale, hard	45	215
Blue shale, sandy	50	265
Pack sand	10	275
Paluxy water sand and gravel	20	295
Red bed	20	315
Sand, fine, top Trinity	10	325
Trinity sand	15	340
Red bed	3	343
Well JP-31-55-407		
Owner: Wolfe Nurseries Driller: Jones Drilling Co.		
Sandy soil	5	5
Red clay	13	18
Sand	62	80
Shale - lime	175	255
Pack sand	10	265
Water sand and gravel	43	308
Streaks of water sand and shale	50	358
Red clay	22	380
Travis Peak water sand	28	408
Well JP-31-55-801		
Owner: City of Stephenville Driller: Texas Water Wells		
Rock, clay, and caliche	20	20
Blue rock and shale	14	34
Lime rock and shale	119	153
Gray shale and lime rock streaks	82	235
Red and gray shale	36	271
Gravel and sand	7	278
Red and gray shale	52	330

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-55-801—Continued		
Sand and shale	62	392
Shale, red and gray lime	62	454
Well JP-31-55-803		
Owner: Mrs. Fowler Driller: Jones Drilling Co.		
Surface soil	3	3
Yellow clay	12	15
Shale and lime	69	84
Hard lime	1	85
Shale and lime streaks	85	170
Sandy shale	10	180
Shale	49	229
Sandy shale	11	240
Sand	6	246
Water sand	28	274
Water gravel	10	284
Shale	12	296
Red bed, shale	7	303
Red bed	27	330
Trinity sand and gravel	30	360
Well JP-31-62-104		
Owner: City of Dublin Driller: Texas Water Wells		
Rock and hard shale	29	29
Hard shale	21	50
Fine sand	15	65
Shale and sand breaks	27	92
Hard shale	61	153
Rock and shale	59	212
Shale	6	218
Hard shale	17	235
Shale	35	270
Sandy shale	10	280
Rock	2	282
Shale	10	292
Sandy shale	10	302

	THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-62-104—Continued		
Sand	8	310
Coarse sand	10	320
Sand and shale breaks	10	330
Gravel	17	347
Gravel and shale breaks	10	357
Gravel	22	379
Hard, sandy shale	18	397
Sand	65	462
Hard shale	7	469
Well JP-31-62-201		
Owner: F. A. Knape Driller: Jones Drilling Co.		
Sandy soil	5	5
Red clay	13	18
Sand	62	80
Shale and lime	175	255
Pack sand	10	265
Water sand and gravel	43	308
Streaks of water sand and shale	50	358
Red clay	22	380
Trinity water sand	28	408
Well JP-31-62-301		
Owner: Cottonwood Baptist Church Driller: J. T. Brown Water Well Drilling		
Sand	20	20
Yellow clay clods	3	23
Yellow clay	12	35
Gray shale	115	150
Dark gray shale	15	165
Gray shale, clay	37	202
Red and green clay	10	212
Red clay	4	216
White sand	9	225
Green and red clay	5	230
White sand	14	244
Green and red clay	8	252
White sand	4	256

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

Well JP-31-62-501

Owner: Liston Wiggins
Driller: Texas Irrigation Sales, Inc.

	THICKNESS (FEET)	DEPTH (FEET)
White caliche	12	12
White and blue sand, caliche rock	16	28
Limestone and sand	30	58
Blue and white limestone and loose shale	30	88
Loose shale	78	166
Loose shale and sand	26	192
Loose shale and sand	14	206
Limestone and shale (small gravel)	10	216
Sand (small gravel)	10	226
Red bed and sand	10	236
Red bed and sand	10	246
Small gravel and sand	10	256
Small gravel and sand	10	266
Small gravel and sand	10	276
Sand, fine, white	10	286
Sand, fine, white	10	296
Sand, fine, white and larger gravel	10	306
Sand, white, larger	10	316
Sand and small gravel	10	326
Sand and small gravel, red bed	10	336
Sand and small gravel, red bed	10	346
Red bed	10	356
Red bed	10	366
Red bed	10	376
Red bed and lime	10	386
Red bed and lime	10	396
Red bed and trace of sand	10	406
Lime and trace of sand	10	416
Red bed, limestone, small gravel	10	426
Red bed, blue shale, and limestone	10	436

Well JP-31-63-301

Owner: J. B. McConnell
Driller: Bill Wolf and Son

	THICKNESS (FEET)	DEPTH (FEET)
Surface	16	16
Broken rock - clay	5	21
Clay	1	22
Shale	4	26
Rock	15	41
Sand rock	6	47
Shale, sand, rock, clay (small layers)	50	97
Coal and clay layers	21	118
Sand gravel, small layers clay to rock	84	202

Well JP-31-64-301

Owner: M. C. Lowry
Driller: Terry Drilling and Supply Co.

Soil	5	5
Sand	27	32
Water sand	10	42
Sand rock	8	50
White lime (Glen Rose)	202	252
Sand, water	34	286
Lime shell	9	295
Blue shale	5	300
Red bed	10	310
Blue shale	5	315
Sand, gravel, water	32	347
Red bed	6	353

Well JP-32-41-103

Owner: Stanley Allen
Driller: A. L. Rodgers

Surface sand and clay	35	35
Water sand	10	45
Yellow clay	35	80
Gravel	5	85
Red clay	20	105
Water sand	35	140
Blue shale	6	146

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well JP-32-49-501		
Owner: E. L. Huffman Driller: Jones Drilling Co.		
Surface soil	2	2
Yellow clay	13	15
Sandy clay	30	45
Water sand (55 gpm)	10	55
Sandy shale	45	100
Lime and shell	264	364
Water sand with shale breaks	40	404
Red bed	21	425
Water sand	10	435
Red bed	16	451
Water sand	61	512

	THICKNESS (FEET)	DEPTH (FEET)
Well JP-32-49-502		
Owner: E. L. Huffman Driller: Jones Drilling Co.		
Surface sand	2	2
Yellow clay	12	14
Sand (water seep)	1	15
Sandy clay	45	60
Lime and shell	204	264
Water sand with shale breaks	100	364
Red bed	21	385
Water sand	10	395
Red bed	18	413
Water sand	79	492

ERATH COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

Well JP-31-39-502

Owner: — Fruehauf

DATE	WATER LEVEL
Oct. 28, 1965	62.22
Mar. 25, 1966	62.45
Mar. 9, 1967	60
Mar. 28, 1968	63.52
Mar. 27, 1969	62.73

Well JP-31-44-904

Owner: L. E. Singleton

DATE	WATER LEVEL
1964	35
Sept. 30, 1965	32.89
Mar. 23, 1966	34.82
Mar. 21, 1967	36.19
Mar. 27, 1968	35.08
Mar. 11, 1969	34.33

Well JP-31-46-901

Owner: L. L. Hopke

DATE	WATER LEVEL
Dec. 9, 1963	270
Oct. 13, 1965	290.59
Apr. 4, 1966	290.73
Aug. 31, 1966	290.70
Sept. 28, 1966	298.01
Dec. 30, 1966	293.01
Feb. 3, 1967	290.84
Mar. 8, 1967	291.08
Apr. 25, 1967	290.73
June 7, 1967	293.20
July 5, 1967	301.65
Aug. 15, 1967	301.88
Sept. 19, 1967	296.62
Oct. 11, 1967	293.13
Nov. 14, 1967	291.62
Dec. 12, 1967	290.99
Jan. 17, 1968	291.38

Well JP-31-46-901—Continued

DATE	WATER LEVEL
Feb. 9, 1968	291.50
Mar. 27, 1969	293.50

Well JP-31-48-401

Owner: J. W. Waldie

DATE	WATER LEVEL
1960	15
Oct. 14, 1965	46.38
Mar. 25, 1966	53.08
Mar. 9, 1967	46.57
Mar. 28, 1968	46.32
Mar. 27, 1969	46.44

Well JP-31-52-303

Owner: Gayle Mahan

DATE	WATER LEVEL
Sept. 14, 1965	32.46
Mar. 24, 1966	29.64
Mar. 8, 1967	30.03
Mar. 27, 1968	30.30
Mar. 26, 1969	29.24

Well JP-31-53-203

Owner: Louis Bays

DATE	WATER LEVEL
Sept. 28, 1965	90.93
Mar. 24, 1966	92.04
Mar. 8, 1967	89.03
Mar. 27, 1968	88.83
Mar. 26, 1969	88.47

Well JP-31-53-207

Owner: B. E. Hanson

DATE	WATER LEVEL
Sept. 28, 1965	59.99
Mar. 31, 1966	60.22
July 15, 1966	53.31
Aug. 31, 1966	60.53
Sept. 27, 1966	64.16
Nov. 2, 1966	60.23

Well JP-31-53-207—Continued

DATE	WATER LEVEL
Nov. 29, 1966	60.24
Dec. 30, 1966	62.24
Feb. 3, 1967	60.98
Mar. 8, 1967	60.56
Apr. 25, 1967	61.19
June 8, 1967	60.54
July 5, 1967	63.73
Aug. 15, 1967	62.20
Sept. 18, 1967	60.34
Oct. 11, 1967	60.12
Nov. 14, 1967	59.77
Dec. 12, 1967	60.06
Jan. 17, 1968	60.07

Well JP-31-53-404

Owner: Hanson and Taylor

DATE	WATER LEVEL
Nov. 29, 1966	51.75
Mar. 8, 1967	51.23
Mar. 27, 1968	51.68
Mar. 26, 1969	51.30

Well JP-31-53-501

Owner: Wayne Keith

DATE	WATER LEVEL
Aug. 26, 1965	63.40
Mar. 24, 1966	58.05
Mar. 8, 1967	61.88
Mar. 27, 1968	58.62
Mar. 26, 1969	62.10

Well JP-31-53-503

Owner: B. W. Mathis

DATE	WATER LEVEL
Aug. 26, 1965	85.53
Mar. 24, 1966	78.66
Mar. 6, 1967	79.35

Table 4.—Water Levels in Selected Wells in Erath County—Continued

Well JP-31-53-601

Owner: Ted Robbins

DATE	WATER LEVEL
Nov. 19, 1959	263
Mar. 6, 1967	267.40
Mar. 26, 1969	270.42

Well JP-31-53-718

Owner: R. E. House

DATE	WATER LEVEL
Sept. 16, 1965	35
Mar. 24, 1966	18.15
Mar. 6, 1967	16.74
Mar. 26, 1969	25.93

Well JP-31-53-805

Owner: B. W. Mathis

DATE	WATER LEVEL
Aug. 31, 1966	67.33
Sept. 27, 1966	64.80
Nov. 2, 1966	65.90
Nov. 29, 1966	66.06
Dec. 30, 1966	64.47
Feb. 3, 1967	67.05
Mar. 6, 1967	65.44
Apr. 25, 1967	64.72
June 8, 1967	67.23
Aug. 15, 1967	80.15
Sept. 19, 1967	66.20
Oct. 11, 1967	65.62
Nov. 14, 1967	64.98
Dec. 12, 1967	64.76
Jan. 17, 1968	64.69
Feb. 9, 1968	64.51
Mar. 26, 1969	65.40

Well JP-31-54-601

Owner: W. L. Payton and Frakes

DATE	WATER LEVEL
Mar. 25, 1966	47.35
Mar. 9, 1967	157.0

Well JP-31-54-801

Owner: Leander Kiker

DATE	WATER LEVEL
1960	200
Oct. 7, 1965	225.65
Mar. 25, 1966	223.94
Mar. 8, 1967	221.15
Mar. 28, 1968	221.34
Mar. 27, 1969	222.50

Well JP-31-55-107

Owner: City of Stephenville

DATE	WATER LEVEL
Feb. 23, 1966	219.37
Mar. 31, 1966	219.70
Aug. 31, 1966	231.77
Sept. 28, 1966	236.3
Nov. 2, 1966	238.22
Nov. 29, 1966	231.86
Dec. 30, 1966	227.32
Feb. 3, 1967	238.33
Mar. 9, 1967	232.52
Apr. 25, 1967	237.84
June 8, 1967	245.89
July 5, 1967	248.55
Aug. 15, 1967	265.35
Sept. 18, 1967	239.43
Oct. 11, 1967	246.03
Nov. 14, 1967	243.24
Dec. 12, 1967	235.40
Jan. 17, 1968	225.45
Feb. 9, 1968	227.79
Mar. 27, 1969	246.80

Well JP-31-55-114

Owner: City of Stephenville

DATE	WATER LEVEL
Sept. 25, 1963	241
Oct. 29, 1965	241.87
Mar. 25, 1966	241.96
Aug. 31, 1966	239.54
Sept. 28, 1966	245.00

Well JP-31-55-114—Continued

DATE	WATER LEVEL
Nov. 2, 1966	239.18
Nov. 19, 1966	239.74
Dec. 30, 1966	240.65
Feb. 3, 1967	240.73
Mar. 9, 1967	240.75
Apr. 25, 1967	239.65
June 8, 1967	239.64
July 5, 1967	246.43
Aug. 15, 1967	252.60
Sept. 19, 1967	239.05
Oct. 11, 1967	246.92
Nov. 14, 1967	240.81
Dec. 12, 1967	240.30
Jan. 17, 1968	239.55
Feb. 9, 1968	239.37
Mar. 27, 1969	239.40

Well JP-31-55-202

Owner: City of Stephenville

DATE	WATER LEVEL
Sept. 20, 1963	237
Jan. 24, 1964	228
Oct. 27, 1965	231.15
Feb. 22, 1966	215.54
Feb. 23, 1966	219.15
Mar. 9, 1967	228.00
Mar. 27, 1969	229.60

Well JP-31-55-208

Owner: Tarleton State College Farm

DATE	WATER LEVEL
Jan. 25, 1947	240
Oct. 29, 1965	245.38
Mar. 25, 1966	245.33
Mar. 9, 1967	245.36
Mar. 28, 1968	245.62
Mar. 27, 1969	257.00

Table 4.—Water Levels in Selected Wells in Erath County—Continued

Well JP-31-55-301

Owner: H. S. Foster

DATE	WATER LEVEL
Dec. 16, 1959	240
Mar. 31, 1966	353.64
Mar. 9, 1967	353.87
Mar. 28, 1968	353.47

Well JP-31-55-601

Owner: Gene Porter

DATE	WATER LEVEL
Oct. 26, 1965	245.44
Apr. 4, 1966	245.34

Well JP-31-55-801

Owner: City of Stephenville

DATE	WATER LEVEL
Feb. 24, 1966	232.09
Mar. 10, 1967	210.13
Mar. 26, 1969	214.55

Well JP-31-55-803

Owner: Mrs. Fowler

DATE	WATER LEVEL
July 3, 1963	235
Oct. 14, 1965	246.12
Feb. 23, 1966	221.82
Aug. 31, 1966	220.78
Sept. 28, 1966	220.02
Nov. 2, 1966	219.98
Nov. 29, 1966	219.75
Feb. 3, 1967	220.86

Well JP-31-55-803—Continued

DATE	WATER LEVEL
Mar. 10, 1967	220.42
Apr. 25, 1967	222.40
July 5, 1967	224.57
Sept. 19, 1967	222.37
Oct. 11, 1967	221.20
Nov. 14, 1967	220.93
Dec. 12, 1967	220.08
Jan. 17, 1968	222.80
Feb. 9, 1968	223.48
Mar. 26, 1969	221.05

Well JP-31-61-301

Owner: Thurston House

DATE	WATER LEVEL
Dec. 1, 1959	97
Aug. 25, 1965	99.41
Mar. 24, 1966	103.79
Mar. 6, 1967	99.52
Mar. 27, 1968	97.00
Mar. 26, 1969	98.30

Well JP-31-62-104

Owner: City of Dublin

DATE	WATER LEVEL
Mar. 24, 1966	198.01
Mar. 8, 1967	330.0
Apr. 2, 1969	331.2

Well JP-31-63-301

Owner: J. B. McConnell

DATE	WATER LEVEL
Oct. 15, 1965	51.21
Mar. 24, 1966	48.56

Well JP-31-63-301—Continued

DATE	WATER LEVEL
Mar. 10, 1967	48.52
Mar. 27, 1968	96.43
Mar. 26, 1969	96.69

Well JP-31-64-301

Owner: M. C. Lowry

DATE	WATER LEVEL
Sept. 16, 1968	260.94
Mar. 26, 1969	258.90

Well JP-32-49-501

Owner: E. L. Huffman

DATE	WATER LEVEL
Nov. 15, 1963	45
Oct. 15, 1965	226.02
Apr. 4, 1966	261.65
Mar. 13, 1967	261.70
Mar. 27, 1968	262.02
Mar. 26, 1969	262.19

Well JP-41-08-202

Owner: George Holliday

DATE	WATER LEVEL
Oct. 25, 1965	114.22
Mar. 24, 1966	112.32
Mar. 10, 1967	113.73
Mar. 26, 1969	113.86

ERATH COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kes, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
JP-31-38-802	60	Mar. 11, 1969	Ktp	16	--	86	26	36	--	318	35	52	0.5	26.5	--	435	--	323	20	742	7.4	0.9
1/ 39-901	35	Mar. 6, 1968	Kho	--	--	96	60	--	--	147	90	131	--	--	--	--	--	--	--	--	7.1	--
1/ 902	32	do.	do.	--	--	117	94	--	--	193	225	292	--	--	--	--	--	--	--	--	7.2	--
44-903	105	Aug. 11, 1966	Ktp	15	--	70	13	* 32	--	155	38	86	.1	9	--	339	--	230	23	619	6.6	.9
904	125	do.	do.	15	--	110	22	* 41	--	232	36	156	.1	8	--	500	--	365	20	921	7.2	.9
904	125	Mar. 11, 1969	do.	16	--	91	15	38	--	203	29	117	.2	5.3	--	411	--	288	22	744	6.9	.9
46-204	396	Sept. 17, 1968	Khe, Kho	16	0.34	106	37	30	--	403	105	39	.6	< .4	--	530	--	419	14	854	7.5	.6
47-402	392	do.	Khe	15	1.40	102	50	28	--	416	121	51	.4	< .4	--	570	--	462	12	918	7.5	.6
48-402	150	Oct. 14, 1965	Ktp	11	--	82	18	9	--	314	22	14	.5	< .4	--	471	311	281	7	550	7.3	.2
52-302	100	Sept. 14, 1965	do.	16	--	54	10	23	--	142	17	55	.2	12	--	329	257	177	27	467	7.0	.8
302	100	July 22, 1968	do.	--	--	--	--	--	3	--	---	--	--	--	0.1	--	--	--	--	--	--	--
304	130	Sept. 26, 1965	do.	13	--	86	13	23	--	328	9	24	.2	3	--	499	332	270	16	579	7.4	.6
306	114	Aug. 11, 1966	do.	15	--	117	20	* 52	--	210	48	191	.1	< .4	--	550	--	375	23	993	7.0	1.2
306	114	Mar. 11, 1969	do.	16	--	129	24	83	--	232	52	249	< .1	< .4	--	670	--	421	30	1,185	6.8	1.8
604	80	Sept. 16, 1965	do.	15	--	79	13	31	--	256	20	53	.3	12	--	479	349	251	21	613	7.3	.9
53-202	120	Sept. 28, 1965	do.	18	--	101	13	19	--	323	23	37	.3	10.5	--	550	381	307	12	660	7.4	.5
505	125	Sept. 14, 1965	do.	12	--	122	27	50	--	339	42	143	.5	13	--	750	577	415	21	1,050	7.3	1.1
601	317	Sept. 15, 1965	Khe	13	--	92	19	11	--	356	15	16	.3	< .4	--	520	342	309	7	592	7.4	.3
715	113	Sept. 16, 1965	Ktp	17	--	64	8	19	--	209	18	19	.3	22	--	376	271	196	18	458	7.3	.6
806	180	July 23, 1968	Khe	26	--	88	11	21	4	267	18	43	.2	10.5	.2	349	--	266	14	595	7.1	.6
2/ 54-801	387	Apr. 18, 1961	Ktp	13	--	69	28	16	2.9	336	13	22	.4	.5	.1	330	--	287	11	589	7.0	.4
801	387	Oct. 7, 1965	do.	12	--	67	26	22	--	327	16	21	.3	< .4	--	491	326	274	15	570	7.5	.6
55-103	400	Oct. 27, 1965	Khe, Kho	14	--	78	27	22	--	338	25	27	.4	3	--	530	362	307	14	625	7.4	.5
108	370	Aug. 14, 1944	Ktp	10	.21	74	29	* 25	--	342	26	36	.36	3	--	342	372	304	15	--	7.6	.6
2/ 108	370	Nov. 1945	do.	16	.1	76	29	19	5	341	27	33	.0	2.5	--	377	--	308	10	66.3	7.0	.4
2/ 202	600	Aug. 13, 1942	do.	--	.58	80	36	* 26	--	371	33	46	--	1	--	419	405	348	14	--	--	.6

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
JP-31-55-203	372	Oct. 27, 1965	Ktp	14	--	78	29	21	--	349	25	25	0.4	3	--	540	367	313	13	640	7.6	0.5
2/ 204	351	Aug. 13, 1942	do.	--	0.02	75	30	* 23	--	349	26	32	--	2.2	--	382	360	310	14	--	--	.6
2/ 204	351	Nov. 1945	do.	16	.10	90	38	9.7	5.2	383	39	36	.2	2.2	--	432	--	380	5	73.4	7.0	.2
205	370	Oct. 27, 1965	do.	13	--	88	36	20	--	371	48	34	.4	< .4	--	422	--	368	11	725	7.6	.5
207	511	do.	do.	13	--	76	30	18	--	360	19	22	.4	3	--	510	358	316	11	630	7.4	.4
304	360	Oct. 14, 1965	Khe	14	--	78	32	17	--	368	28	20	.4	< .4	--	560	371	326	10	640	7.4	.4
407	408	Oct. 7, 1965	Ktp	18	--	86	59	108	--	409	187	131	1.1	< .4	--	791	--	456	34	1,300	7.5	2.2
407	408	July 22, 1968	do.	--	--	--	--	--	3	--	--	--	--	--	0.2	--	--	--	--	--	--	--
2/ 701	290	Apr. 18, 1961	Khe	15	--	74	32	15	3.2	356	21	26	.5	.8	.0	363	--	316	9	643	6.9	.4
3/ 802	420	Nov. 9, 1964	Ktp	11	.15	80.1	28.8	18.1	--	373.3	22	20	--	--	--	571	364	319	11	637	7.15	.4
3/ 802	420	Nov. 14, 1964	do.	14	.2	57.6	26	32.6	--	322	19.2	27	--	--	--	517	335	251	22	600	7.21	.9
2/ 61-202	190	Dec. 1, 1959	do.	18	--	132	13	34	5.4	382	32	74	--	16	.19	513	--	383	16	820	--	.8
2/ 301	188	do.	do.	14	--	93	33	18	2.6	330	20	80	--	8.8	.06	431	--	368	10	794	6.9	.4
301	188	Aug. 25, 1965	do.	18	--	108	33	61	--	472	28	92	.4	7	--	820	579	406	25	1,000	7.4	1.3
601	400	Sept. 29, 1965	Khe	15	--	85	38	18	--	379	65	12	.5	3	--	620	423	367	10	701	7.6	.4
602	380	do.	do.	13	--	86	32	13	--	395	24	11	.4	< .4	--	570	374	346	8	640	7.6	.3
62-101	436	Jan. 6, 1939	Ktp	15	.14	74	38	* 31	--	406	37	25	< .4	.4	--	394	421	340	17	--	7.3	.7
2/ 101	436	Jan. 15, 1947	do.	--	--	69	39	* 26	--	396	35	20	.1	.0	--	396	384	332	15	69	--	.6
101	436	Aug. 13, 1953	do.	15	.12	58	39	39	--	384	38	25	.2	< .4	--	390	404	305	22	--	7.7	.9
102	350	Jan. 6, 1939	Khe	14	.1	78	33	* 21	--	390	23	23	< .4	2.2	--	376	387	330	12	--	7.3	.5
2/ 102	350	Nov. 1945	do.	15	.4	79	33	11	4.1	380	22	17	.2	2.2	--	369	--	332	7	645	6.9	.3
102	350	Aug. 13, 1953	do.	16	.12	74	33	13	--	359	27	18	.2	3.5	--	355	--	320	8	--	7.7	.3
103	412	Sept. 10, 1953	Ktp	15	.38	70	33	28	--	384	26	21	.4	3.5	--	385	--	310	16	--	7.5	.7
104	469	Apr. 29, 1959	do.	--	.66	82	28	10	--	300	26	18	.2	1.8	--	407	315	320	6	679	7.3	.2
105	476	Sept. 10, 1953	Khe, Kho	12	.04	69	33	30	--	366	36	25	.4	2.7	--	353	388	308	18	--	7.5	.7
105	476	Apr. 29, 1959	do.	--	.06	74	28	10	--	354	25	20	.2	1.1	--	399	332	300	7	665	7.2	.3
2/ 401	109	Apr. 18, 1961	Kp	15	--	97	9.9	16	.8	318	16	21	.4	6.5	.04	339	--	282	11	596	6.8	.4
401	109	Sept. 29, 1965	do.	14	--	100	9	13	--	322	19	12	.3	16.5	--	510	342	288	9	573	7.4	.3
501	436	July 23, 1968	Khe	15	--	84	31	18	3	376	30	18	.3	10.5	.2	392	--	338	10	654	7.5	.4
63-101	390	Oct. 5, 1965	do.	14	--	80	38	15	--	394	36	18	.4	< .4	--	600	396	356	8	680	7.4	.3
64-301	353	Sept. 16, 1968	do.	14	--	46	30	37	--	283	59	23	.4	< .4	--	348	--	238	25	590	7.7	1.0

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
JP-32-41-103	146	Oct. 25, 1965	Khe, Kho	14	--	48	33	93	--	372	92	33	.4	1.9	--	498	--	257	44	816	7.6	2.5
103	146	July 22 1968	do.	--	--	--	--	--	5	--	--	--	--	--	.2	--	--	--	--	--	--	--

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

1/ Halliburton Division Laboratory
2/ U.S. Geological Survey Laboratory
3/ Curtis Laboratories

ERATH COUNTY

Table 6.—Chemical Analyses of Oil-Field Brines

(Analyses are given in parts per million except pH)

SYSTEM	PRODUCING ZONE	FIELD	AVERAGE DEPTH (FT)	AREA SHOWN ON FIGURE 18, VOLUME I	CALCIUM (Ca)	MAG-NESIUM (Mg)	SODIUM (Na)	BICAR-BONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	TOTAL DISSOLVED SOLIDS	pH
Pennsylvanian[a]	Strawn	—	2,900	K-10	3,160	559	24,184	124	30	44,587	72,856	7.38

[a] Analyses obtained from data accompanying Railroad Commission of Texas' 1967 Salt Water Production and Disposal questionnaires.

EXPLANATION

Public supply well

Industrial well

Irrigation well

Domestic or livestock well

Oil or gas well

Unused or abandoned well

Solid circle indicates flowing well

501

Line above well number indicates chemical analysis given in Table 5

PALO PINTO COUNTY

EASTLAND COUNTY

COMANCHE COUNTY

HAMILTON COUNTY

BOSQUE COUNTY

SOMERVELL COUNTY

HOOD COUNTY

Hackaboy

Morgan Mill

Lingleville

STEPHENVILLE

DUBLIN

Alexander

Purves

Clairette

Bluff Dale

Location of Selected Water, Oil, and Gas Wells in Erath County

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING DIAMETER (in.)	CASING DEPTH (ft)	WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	WATER LEVEL DATE OF MEASUREMENT	METHOD OF LIFT	USE OF WATER	REMARKS
* JR-39-33-604	Perry Water Supply Corp.	J. L. Myers Sons	1964	3,651	10 7	56 3,651	Kho	471	+ 18.00 3.45	Mar. 2, 1965 Apr. 1, 1969	Sub, E 10	P	Gun perforated from 3,458 to 3,526 ft. Pumping level 180 ft at 95 gpm on Mar. 2, 1965. Pump set at 378 ft. Cemented. Temp. 120°F. Texas Water Development Board observation well. 2/ 3/ 4/
* 901	Tri County Water Supply Corp.	Texas Water Wells	1969	3,764	14 8 7	-- 805 3,756	do.	465	+ +	Jan. 24, 1969 Apr. 1, 1969	Sub, E 30 Flows	P	Gun perforated 20 shots 3,580 to 3,590 ft, 116 shots 3,608 to 3,666 ft, 40 shots 3,695 to 3,705 ft, and 40 shots 3,723 to 3,733 ft. Pumping level 400 ft at 260 gpm on Jan. 24, 1969. Pump set at 400 ft. Cemented from 3,764 ft to surface. 2/
* 41-602	Sanitarium Drug Co.	H. C. Johnson	1909	3,378	6 2	3,300 800	Kgr, Ktp	394	+ + + + 69.30	1935 1960 1961 June 19, 1968	Flows	P	Completed from 0 to 3,300 ft. Temp. 125°F.
* 604	City of Marlin	do.	1893	3,330	15 4 2	900 3,330 60	Ktp	395	+ 224 + 184 + +	1893 1939 May 5, 1961 June 19, 1968	Flows	P	Cemented. Reported to flow 60 gpm in 1946. Temp. 147°F. 1/
* 57-401	City of Rosebud	--	1902	2,700	--	--	Kgr	405	--	--	N	N	Well plugged and abandoned.
* 40-40-804	Golinda Water Supply Corp.	J. L. Myers Sons	1957	2,640	12 8 5	52 604 2,636	Kho	486	+ 27 39.34	1957 Apr. 1, 1969	Sub, E	P	Completed from 2,488 to 2,636 ft. Reported yield 110 gpm. Cemented. Temp. 94°F. Texas Water Development Board observation well. 1/ 2/ 4/
* 47-602	Mooreville Water Supply Corp.	West-Tex Tool Service	1965	2,609	7	2,609	do.	543	141 76.65	Aug. 1965 Apr. 1, 1969	Sub, E 5	P	Completed from 2,474 to 2,494, 2,514 to 2,522, and 2,530 to 2,544 ft. Pumping level 254 ft at 100 gpm in Aug.1965. Pump set at 395 ft. Cemented. Texas Water Development Board observation well. 3/ 4/
* 48-501	G. DeGraffenried	Sun Oil Co.	1924	2,708	10 6	-- --	do.	450	+ 166 +	1924 June 19, 1968	Flows	D, S	Reported yield 800 gpm. Temp. 112°F. 1/
* 801	do.	H. B. Glass	1958	2,974	12 7	661 2,874	Kho	465	+ 29.5 + 13.74	Mar. 1, 1966 Apr. 1, 1969	T, E 5	P	Perforated from 2,774 to 2,874 ft. Pump set at 105 ft. Estimated yield 200 gpm. Cemented from 2,874 ft to surface. Temp. 130°F. Texas Water Development Board observation well. 3/ 4/
* 56-102	Cego-Durango Water Supply Corp.	Key Water Well Drilling-Development Co.	1968	2,768	8	2,768	do.	555	30	Feb. 5, 1968	Sub, E 10	P	Perforated from 2,708 to 2,748 and 2,756 to 2,768 ft. Pumping level 60 ft at 90 gpm on Feb. 11, 1968. Pump set at 300 ft. Reported yield 82 gpm. 1/ 2/
* 301	City of Lott	Layne Texas Co.	1940	3,295	10 6 5	500 2,962 3,300	do.	505	+ 152 15.75	Apr. 26, 1940 Apr. 1, 1969	T, E 7-1/2	P	Perforated from 2,950 to 3,300 ft. Estimated yield 175 gpm. Cemented. Temp. 138°F. Texas Water Development Board observation well. 1/ 4/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* JR-40-64-101	Westphalia Water Supply Corp.	J. L. Myers Sons	1959	3,060	12 8 5	94 720 3,060	Kho	576	44 85.15	May 1959 Apr. 1, 1969	T, E S	P	Perforated from 2,960 to 3,060 ft. Pump set at 150 ft. Cemented from 3,060 ft to surface. Texas Water Development Board observation well. 1/ 2/ 4/
* 601	City of Rosebud	Layne Texas Co.	1940	3,692	10 6 5	457 3,358 3,697	do.	380	+ +	July 26, 1940 June 19, 1968	Flows	N	Perforated from 3,353 to 3,697 ft. Reported yield 825 gpm in 1940. Cemented from 3,353 ft to surface. Temp. 150°F. 4/

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I.
4/ For water-level measurements, see Table 4.

FALLS COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
JR-39-42-801	H. C. Cockburn and Zephyr Oil Co.	N. D. Buie No. 1	1945	6,823	390	E
43-401	Cockburn and Gilliam	Gilliam No. 1	1945	7,606	403	E
801	Seaboard Oil Co. of Delaware	J. E. Green No. 1	1948	6,200	430	E
49-401	A. S. Hudgens	Lee Casey No. 1	1949	2,432	435	E
50-110	Dail Goodson	J. G. Barganier No. 1	1947	4,487	320	E
57-402	Delhi-Taylor Oil Corp.	J. A. Cobb No. 1	1955	4,024	390	E
40-47-702	Shallow Sands Oil Co.	Stifelman No. 1	1954	798	595	E
55-201	H. E. Rains	J. B. Scott No. 1	1951	1,110	500	E
56-302	Maury Hughes, Trustee, A. H. Bell	C. L. Trice No. 1	1941	3,104	480	E
64-102	Humble Oil and Refining Co.	Elanor Carroll No. 1	1951	3,717	530	E
201	do.	Emma Pieper No. 2	1952	2,887	434	E
701	W. P. Luse	Voltin No. 1	1951	2,926	445	E

FALLS COUNTY

Table 3.—Drillers' Logs of Selected Wells

Well JR-39-41-604

Owner: City of Marlin
Driller: H. G. Johnson

	THICKNESS (FEET)	DEPTH (FEET)
Blue marl	1,150	1,150
Chalky limestone	200	1,350
Blue clay	100	1,450
Limestone	125	1,575
Blue clay	77	1,652
White limestone	338	1,990
Shelly limestone and clay	200	2,190
Limestone	1,000	3,190
A little sand, first flow	10	3,200
Shaly limestone	100	3,300
Sand	30	3,330

Well JR-40-40-804

Owner: Golinda Water Supply Corp.
Driller: J. L. Myers Sons

Surface soil	4	4
Clay (Taylor)	48	52
Shale (Eagle Ford)	402	454
Chalk (Austin)	206	660
Shale (Edwards)	280	940
Lime (Buda)	1,160	2,100
Sand (Glen Rose)	176	2,276
Lime	43	2,319
Shale and sand (top of Trinity)	83	2,402
Sand	213	2,615
Shale	12	2,627
Red Bed	13	2,640

Well JR-40-48-501

Owner: G. DeGraffenried
Driller: Sun Oil Co.

No record	245	245
Blue shale	65	310
No record	105	415
Blue shale	15	430
Gray marl	30	460
Gray marl	177	637

Well JR-40-48-501—Continued

Chalk	98	735
Shale	45	780
Chalk	20	800
Blue shale	60	860
Blue sandy shale	40	900
Blue shale	20	920
Black shale	55	975
Blue shale with hard lime shells	15	990
Black shale	20	1,010
Lime	33	1,043
Sandy shale	72	1,115
Lime (oil shows at 1,250 ft)	145	1,260
Soft lime (sulphur)	5	1,265
Soft lime	9	1,274
Hard lime	5	1,279
Lime (oil showing)	61	1,340
Blue shale	12	1,352
Lime (oil showing)	18	1,370
Soft lime	25	1,395
Lime	35	1,430
Blue shale	15	1,445
Shale	55	1,500
Lime	28	1,528
Blue shale	17	1,545
Lime	39	1,584
Shale	51	1,635
Hard lime	5	1,640
Lime	43	1,683
Granulated lime (water)	11	1,694
Gray lime	46	1,740
Blue shale	3	1,743
Gray lime	52	1,795
Granulated lime water	5	1,800
Gray lime	45	1,845
Granulated lime water	3	1,848
Gray lime	239	2,087

Table 3.—Drillers' Logs of Selected Wells in Falls County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well JR-40-48-501—Continued		
Blue shale	10	2,097
Gray lime	29	2,126
Light shale	4	2,130
Gray lime	37	2,167
Broken lime and shale	16	2,183
Granulated lime water	11	2,194
Hard lime	14	2,208
Blue shale	16	2,224
Gray lime	11	2,235
Granulated lime water	12	2,247
Gray lime	38	2,285
Blue shale	2	2,287
Gray lime	58	2,345
Granulated lime water	15	2,360
Gray lime	35	2,395
Blue shale	5	2,400
Sandy shale	5	2,405
Gray lime	10	2,415
Blue shale	8	2,423
Gray lime	22	2,445
Granulated lime water	25	2,470
Sandy lime	22	2,492
Gray lime	8	2,500
Blue shale with shell streaks	45	2,545
Sandy lime	10	2,555
Lime and shale	20	2,575
Sandy lime	5	2,580
Fine sand, water	50	2,630
Gray lime	10	2,640
Sand (water at 2,675 to 2,708 ft)	68	2,708

Well JR-40-56-102

Owner: Cego-Durango Water Supply Corp.
Driller: Key Water Well Drilling-Development Co.

Shale and lime	2,269	2,269
Sand	164	2,433
Lime	62	2,495
Sand	48	2,543
Shale	32	2,575
Sand	63	2,638
Lime	63	2,701
Sand	67	2,768

Well JR-40-56-301

Owner: City of Lott
Driller: Layne Texas Co.

Surface soil	3	3
Yellow clay	20	23
Black shale	122	145
Hard, sandy rock	88	233
Shale	624	857
Chalk	150	1,007
Shale	168	1,175
Shale - hard layers	50	1,225
Shale	15	1,240
Buda lime	33	1,273
Shale	57	1,330
Hard shale	20	1,350
Georgetown lime	31	1,381
Lime	122	1,503
Shale	14	1,517
Lime	129	1,646
Shale	16	1,662
Lime and shale breaks	42	1,704
Shale and lime	56	1,760
Shale streaks - lime	56	1,816
Shale and layers of lime	24	1,840
Lime	32	1,872
Lime and shale	33	1,905
Lime and shale breaks	55	1,960
Lime	20	1,980
Shale	13	1,993
Lime	36	2,029
Lime and shale	197	2,226
Hard lime	9	2,235
Lime and shale	28	2,263
Lime and shale breaks	43	2,306

Table 3.—Drillers' Logs of Selected Wells in Falls County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well JR-40-56-301—Continued		
Lime	42	2,348
Lime and shale	32	2,380
Shale	12	2,392
Lime	43	2,435
Lime and shale	26	2,461
Lime	101	2,562
Lime and shale layers	50	2,612
Sandy shale and sand	13	2,625
Lime shale and anhydrite	42	2,667
Lime and shale	28	2,695
Lime	31	2,726
Lime	46	2,772
Shale	63	2,835
Sand	2	2,837
Shale	19	2,856
Hard shale	10	2,866
Sandy lime (cored)	20	2,886
Sandy lime and layers of hard lime	19	2,905
Lime and shale (cored)	5	2,910
Porous lime and shale	17	2,927
Hard shale	25	2,952
Hard sand (cored)	7	2,959
Blue shale	3	2,962
Hard sand and layers of red shale (cored)	26	2,988
Sand and layers of red and blue shale (cored)	20	3,008
Sand - few layers of red and blue shale	42	3,050
Sand and shale (cored)	6	3,056
Shale	8	3,064
Sand	12	3,076
Hard shale	14	3,090
Hard sand - layers of hard shale (cored)	25	3,115
Sand	2	3,117
Hard shale	28	3,145
Sand and shale layers (cored)	20	3,165
Sand and layers of shale	29	3,194
Sand (cored)	20	3,214
Lime and sand layers	29	3,243
Sand and layers of hard shale	16	3,259
Hard sandy lime	11	3,270
Sand	21	3,291
Shale	4	3,295

Well JR-40-64-101

Owner: Westphalia Water Supply Corp.
Driller: J. L. Myers Sons

Surface soil	3	3
Clay	83	86
Shale	544	630
Chalk rock	560	1,190
Shale	230	1,420
Lime	187	1,607
Lime and shale	293	1,900
Sandy lime	125	2,025
Lime	275	2,300
Sandy lime	33	2,333
Lime	332	2,665
Sandy lime	235	2,900
Sand	145	3,045
Shale	15	3,060

Well JR-40-64-601

Owner: City of Rosebud
Driller: Layne Texas Co.

Soil	10	10
Clay	20	30
Black shale	145	175
Shale	670	845
Shale and chalk	91	936
Chalk	390	1,326
Shale	120	1,446
Chalk	22	1,468
Shale	62	1,530
Shale and lime	31	1,561
Lime	18	1,579
Lime and shale	60	1,639

Table 3.—Drillers' Logs of Selected Wells in Falls County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well JR-40-64-601—Continued		
Lime	157	1,796
Chalky Lime	34	1,830
Lime	52	1,882
Shale	5	1,887
Lime	44	1,931
Lime and layers of shale	73	2,004
Shale and lime	359	2,363
Lime	58	2,421
Soft lime	18	2,439
Lime	14	2,453
Soft lime	36	2,489
Lime	42	2,531
Lime and shale	120	2,651
Lime	49	2,700
Lime and shale	40	2,740
Lime	155	2,895
Lime and shale	62	2,957
Lime, shale, and anhydrite	20	2,977
Shale and lime	26	3,003
Shale and pyrite	10	3,013
Sand	5	3,018

	THICKNESS (FEET)	DEPTH (FEET)
Well JR-40-64-601—Continued		
Shale and lime	179	3,197
Sand	3	3,200
Hard shale	5	3,205
Sandy lime	10	3,215
Sandy lime and shale	30	3,245
Shale and lime	59	3,304
Hard sandy lime	10	3,314
Sandy shale	16	3,330
Sand and layers of shale	15	3,345
Sand	48	3,393
Shale and lime	3	3,396
Sand	5	3,401
Hard shale	2	3,403
Sand	30	3,433
Hard shale	12	3,445
Sand	72	3,517
Red and blue shale	5	3,522
Sand and layers of shale	152	3,674
Sand	10	3,684
Shale	8	3,692

FALLS COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

Well JR-39-33-604

Owner: Perry Water Supply Corp.

DATE	WATER LEVEL
Mar. 2, 1965	+ 18.00
Feb. 28, 1966	+ 27.00
May 2, 1967	+ 13.6
Mar. 18, 1968	+ 7.02
Apr. 1, 1969	3.45

Well JR-40-40-804

Owner: Golinda Water Supply Corp.

DATE	WATER LEVEL
1957	+ 27
Mar. 6, 1964	12.15
Mar 1, 1966	21.94
May 11, 1967	27.42
Mar. 18, 1968	33.70
Apr. 1, 1969	39.34

Well JR-40-47-602

Owner: Mooreville Water Supply Corp.

DATE	WATER LEVEL
Aug. 1965	141
Mar. 1, 1966	145.0
May 2, 1967	69.08
Mar. 18, 1968	75.00
Apr. 1, 1969	76.65

Well JR-40-48-801

Owner: G. DeGraffenried

DATE	WATER LEVEL
Mar. 1, 1966	+ 29.5
May 2, 1967	+ 28.5
Apr. 1, 1969	+ 13.74

Well JR-40-56-301

Owner: City of Lott

DATE	WATER LEVEL
Apr. 26, 1940	+ 152
May 5, 1966	+ 11.55
Apr. 1, 1969	15.75

Well JR-40-64-101

Owner: Westphalia Water Supply Corp.

DATE	WATER LEVEL
May 1959	44
Apr. 7, 1965	69.19
Mar. 1, 1966	72.27
Sept. 7, 1966	74.13
Nov. 3, 1966	73.84
Nov. 23, 1966	76.11
Dec. 28, 1966	70.83
May 2, 1967	77.04
June 7, 1967	75.30
June 29, 1967	72.21
Aug. 14, 1967	77.76
Oct. 3, 1967	76.32
Dec. 8, 1967	79.60
Jan. 12, 1968	80.23
Feb. 8, 1968	80.14
Mar. 18, 1968	77.30
Apr. 1, 1969	85.15

FALLS COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum on constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
JR-39-33-604	3,651	June 11, 1964	Kho	--	0.63	19	4	294	7	465	252	59	3.7	< 0.4	--	1,110	869	65	91	1,536	7.9	16.0
1/ 901	3,764	Jan. 24, 1969	do.	27.2	.5	23.5	4.4	255.5	--	444.1	171.4	63	2	.12	--	1,013	766	77	88	1,200	7.25	12.8
2/ 41-602	3,378	Apr. 20, 1967	Kgr, Ktp	24	.32	248	64	* 3,127	--	481	4,906	1,546	--	--	--	10,512	10,152	885	89	13,000	7.16	45.8
3/ 604	3,330	Feb. 23, 1938	Ktp	--	--	182	69	* 2,993	--	504	4,375	1,615	--	0	--	9,482	--	738	90	--	--	48.0
3/ 604	3,330	June 13, 1944	do.	--	--	193	69	* 2,940	--	503	4,330	1,580	--	.8	--	9,360	--	765	89	--	--	46.2
3/ 604	3,330	Oct. 20, 1960	do.	41	--	217	66	2,548	--	488	3,437	1,598	.1	--	--	9,625	8,147	1,067	87	--	--	38.9
4/ 57-401	2,700	--	Kgr	96	.35	272	56	1,332	--	201	3,206	217	2	< .4	--	5,505	5,281	909	76	--	6.2	19.2
40-40-804	2,640	Sept. 17, 1968	Kho	24	.20	4	1	254	--	464	125	50	1.4	< .4	--	690	--	16	98	1,066	8.3	29.9
47-602	2,609	Aug. 18, 1965	do.	--	.52	6	2	317	--	467	239	61	2.9	< .4	--	1,100	859	23	97	1,552	8.3	28.7
3/ 48-501	2,708	June 13, 1944	do.	25	.14	55	17	* 503	--	433	802	66	3.1	0	--	1,680	--	208	84	2,440	7.8	15.2
501	2,708	June 25, 1951	do.	34	1.84	73	26	* 688	--	427	976	156	3.6	< .4	--	2,060	2,169	290	84	--	7.6	17.6
801	2,974	Jan. 3, 1966	do.	--	.24	5	2	283	--	489	148	48	2.4	< .4	--	980	729	19	97	--	8.4	27.4
5/ 56-102	2,768	Feb. 13, 1968	do.	--	.1	4.8	2.4	299.6	--	492.9	150	57	1.3	.6	--	1,027.9	759	22	97	1,100	8.2	27.7
301	3,295	May 27, 1940	do.	48	2.2	69	17	* 400	--	354	733	80	1.8	< .4	--	1,566	1,526	242	78	--	8.3	11.2
3/ 301	3,295	June 13, 1944	do.	30	2.4	78	18	* 429	--	350	749	83	2.3	0	--	1,560	--	268	78	2,260	8.1	11.4
301	3,295	Apr. 15, 1964	do.	--	.91	83	17	490	--	344	740	91	3.3	< .4	--	1,700	1,595	277	79	2,822	7.8	12.8
5/ 64-101	3,060	May 8, 1959	do.	--	--	28	1	* 529	--	451	692	93	--	--	--	1,819	1,565	74	94	--	7.7	26.8
101	3,060	Sept. 19, 1963	do.	--	.27	21	4	510	--	418	720	88	2.6	< .4	--	1,760	1,552	72	94	2,706	8.3	26.7
601	3,692	Aug. 3, 1940	do.	260	.6	256	57	* 1,353	--	214	3,229	197	1.4	< .4	--	5,375	5,460	824	77	--	8.2	20.0
601	3,692	Sept. 18, 1940	do.	17	.45	246	35	* 1,417	--	232	3,229	206	1	< .4	--	5,374	5,266	758	80	--	7.5	22.4
601	3,692	July 21, 1943	do.	57	.5	281	45	* 1,400	--	171	3,325	218	1.5	< .4	--	5,599	5,413	886	77	--	7.3	20.4
3/ 601	3,692	June 13, 1944	do.	--	--	270	42	* 1,420	--	209	3,320	214	--	.2	--	5,370	--	846	78	--	--	21.2
601	3,692	May 30, 1946	do.	86	.35	272	56	* 1,332	--	201	3,206	217	2	< .4	--	5,505	5,271	909	76	--	6.2	19.2

* Sodium and potassium calculated as sodium (Na)

1/ Curtis Laboratories
2/ Microbiology Service Laboratories
3/ U.S. Geological Survey Laboratory
4/ Laboratory unknown
5/ Pope Testing Laboratories

MC LENNAN COUNTY

COUNTY

BELL

LIMESTONE

MILAM COUNTY

ROBERTSON COUNTY

Moorevillage

Cego

Durango

Chilton (Uninc.)

Satin

Otto

Tomlinson Hill

MARLIN

LOTT

Travis

ROSEBUD

Reagan

EXPLANATION

Public supply well

Industrial well

Irrigation well

Domestic or livestock well

Oil or gas well

Unused or abandoned well

Solid circle indicates flowing well

501

Line above well number indicates chemical analysis given in Table 5

0 1 2 3 4 MILES

Location of Selected Water, Oil, and Gas Wells in Falls County

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of left and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
LA-40-01-701	D. M. Proffitt	Jones Drilling Co.	1961	473	7	473	Khe	1,170	317.57 321.8	Apr. 6, 1966 Apr. 1, 1969	T, G	Irr	Texas Water Development Board observation well. 2/ 4/
09-101	Fairy School	Duncan Drilling Co.	1947	426	4	426	do.	1,240	375	Dec. 16, 1959	C, E 1-1/2	N	Perforated from 406 to 426 ft.
102	Parks and Allison	do.	1923	400	5	400	do.	1,207	360	do.	C, E 2	F	Open end completion. Pump set at 370 ft. Reported yield 3.5 gpm.
103	H. O. Richardson	--	1922	400	--	--	Kgr, Khe	1,210	304.3 230.1	Mar. 25, 1966 Mar. 24, 1969	N	N	Open hole. Texas Water Development Board observation well. 4/
104	Marvin Porterfield	Tatum Drilling Co.	1964	408	6 5	24 408	Khe	1,210	350	1964	Sub, E 1	D	Perforated from 370 to 408 ft. Pump set at 400 ft. Reported yield 5 gpm. 1/
201	Duncan Ranch	Duncan Drilling Co.	--	760	10	758	Kho	1,175	379.3 386.20	Mar. 25, 1966 Mar. 24, 1969	C, E 5	D, S	Perforated from 698 to 758 ft. Texas Water Development Board observation well. 4/
202	do.	do.	1964	740	15	700	do.	1,195	439	Oct. 31, 1966	T, G 90	Irr	Open hole completion from 700 to 740 ft. Cemented from 700 ft to surface. 2/
* 203	do.	L. W. Little Drilling Co.	1962	204	4	204	Kp	1,152	156.70	Dec. 17, 1968	C, W	D, S	Completed from 176 to 204 ft. Pumping level 174 ft at 10 gpm in Feb. 1962. Gravel packed. Temp. 68°F. 1/
501	C. A. Bullard	Tatum Drilling Co.	1962	432	7 5	7.5 427	Khe	1,105	210	May 21, 1962	C, E 1-1/2	D	Pump set at 363 ft. Reported yield 3.6 gpm. Cemented from 7.5 ft to surface. 1/
* 601	H. Stroud	--	--	60	--	--	Kp	1,114	--	--	C, W	S	--
801	Lydia Nele	Clarence Erickson	1965	332	4	332	do.	1,290	260	June 1965	C, E 3/4	D, S	Slotted from 308 to 332 ft. Pumping level 318 ft at 4 gpm in June 1965. Pump set at 318 ft. Gravel packed. Cemented from 22 ft to surface. 1/
901	J. D. Lawson	L. W. Little Drilling Co.	1961	505	4	486	Khe	1,135	340	Sept. 12, 1961	Sub, E	D, S	Slotted from 444 to 486 ft. Pumping level 340 ft at 8 gpm on Sept. 12, 1961. Gravel packed. 1/
* 17-501	A. E. Graeter	James Mathew Adams	1954	390	8 7	60 390	Khe	1,010	45 271.2	Mar. 9, 1960 Mar. 24, 1966	C, E 2	D, S	Perforated from 382 to 390 ft. Pump set at 370 ft. Reported yield 82 gpm.
* 702	A. G. Thompson	Tatum Drilling Co.	1964	327	5	327	do.	1,010	250 223.60	Sept. 10, 1964 Mar. 24, 1969	Sub, E 1	S	Perforated from 270 to 281 and 316 to 327 ft. Pumping level 300 ft at 8 gpm on Sept. 10, 1964. Pump set at 320 ft. Temp. 73°F. Texas Water Development Board observation well. 1/ 4/
18-201	Johnson Bratleister	Clarence Erickson	1953	535	7 5	190 535	do.	965	190	Mar. 24, 1966	C, E 1	D, S	Slotted from 475 to 535 ft. Pump set at 255 ft. Reported yield 10 gpm.
* 701	Claud D. Smith	R. A. Adams and Son	1934	60	--	--	Kf	1,205	--	--	C, W	D, S	--

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING DIAMETER (in.)	CASING DEPTH (ft)	WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	WATER LEVEL DATE OF MEASUREMENT	METHOD OF LIFT	USE OF WATER	REMARKS
	LA-40-18-702	John Calverts	R. A. Adams and Son	--	528	7 4	138 528	Khe	1,050	--	--	--	S	Perforated from 482 to 502 and 515 to 528 ft. 1/
	25-301	W. A. Suggs	do.	1963	403	6 4	16 403	do.	920	250	Jan. 1963	C, E 1/2	D	Perforated from 383 to 403 ft. Bailing level 250 ft at 25 gpm in Jan. 1963. Pump set at 294 ft. Reported yield 3.5 gpm. Cemented from 16 ft to surface. 1/
*	41-07-501	M. K. Taylor	Tatum Drilling Co.	--	100	5	100	Kp	1,330	65 37.55	1960 Apr. 1, 1969	C, E	D, S	Perforated from 80 to 100 ft. Texas Water Development Board observation well. 4/
	502	C. M. Roberson	do.	1962	108	5	108	do.	1,360	70.00	Dec. 16, 1968	Sub, E	S	Cemented from 32 ft to surface. 1/
*	08-201	J. P. Cattle Co.	do.	1963	264	6 5	23 240	Khe	1,135	235 228.5	Dec. 9, 1963 Apr. 1, 1969	Sub, E 1	D, S	Perforated from 240 to 264 ft. Pumping level 240 ft at 2 gpm on Dec. 9, 1963. Pump set at 256 ft. Reported yield 12 gpm. Cemented from 23 ft to surface. Temp. 74°F. Texas Water Development Board observation well. 1/ 4/
*	301	City of Hico	--	1892	600	12	600	Ktp	1,090	160 203.1	Oct. 23, 1964 Apr. 2, 1969	T, E 15	P	Completed from 440 to 600 ft. Pumping level 223 ft at 167 gpm on Jan. 12, 1965. Pump set at 250 ft. Reported yield 180 gpm. Well drilled to 1,392 ft and plugged back to 600 ft. Texas Water Development Board observation well. 3/ 4/
*	302	do.	Jones and Duncan	1933	311	7	--	Khe, Kpe	1,090	177 200.63	1933 Apr. 6, 1966	T, E 15	P	Reported yield 115 gpm. Texas Water Development Board observation well. 1/ 4/
	303	Bluebonnet Country Club	Leon Drilling Co.	1966	344	8	340	Khe	1,040	158	Jan. 26, 1966	Sub, E 7-1/2	Irr	Slotted from 235 to 340 ft. Pumping level 240 ft at 80 gpm on Jan. 26, 1966. Pump set at 275 ft. Gravel packed. Cemented from 125 to 150 ft. 1/
*	501	Luther Jaggers	--	--	240	5	240	Kgr	1,129	215	Mar. 15, 1960	C, W	S	
	502	Billy Glidewell	Jones Drilling Co.	1963	358	4	354	Kho	1,225	323.65 327.75	Apr. 6, 1966 Apr. 1, 1969	Sub, E	D, S	Slotted from 345 to 354 ft. Pump set at 345 ft. Cemented from 120 ft. to surface Texas Water Development Board observation well. 1/ 4/
	702	-- Bulman	Leon Drilling Co.	1963	345	4	345	do.	1,225	385	June 26, 1963	Sub, E 7-1/2	D, S	Slotted from 318 to 345 ft. Pumping level 300 ft at 10 gpm on June 26, 1963. Pump set at 317 ft. Gravel packed. Cemented from 230 to 245 ft. 1/
	901	John Lockey	Duncan Drilling Co.	--	310	5	--	do.	1,200	--	--	C, W	D, S	
*	14-801	Lund Ranch	Tatum Drilling Co.	1965	273	4	273	do.	1,342	228 246.9	Mar. 27, 1965 Apr. 1, 1969	C, E	S	Slotted from 252 to 273 ft. Pumping level 245 ft at 8 gpm on Mar. 27, 1965. Pump set at 255 ft. Temp. 72°F. Texas Water Development Board observation well. 1/ 4/
*	15-301	Mrs. R. D. Ford	do.	1963	60	5	60	Kp	1,280	13.50	Dec. 18, 1968	C, E 1/2	S	Perforated from 40 to 60 ft. Pump set at 57 ft. Reported yield 4 gpm. Cemented from 15 to 24 ft. Temp. 67°F. 1/
*	501	J. L. Roberson	Steward Drilling	1956	210	10	210	Khe, Kho	1,020	18 20.75	Jan. 26, 1960 Apr. 1, 1969	T, G 60	Irr	Perforated from 10 to 210 ft. Pumping level 110 ft at 350 gpm. Texas Water Development Board observation well. 1/ 4/
	16-203	H. D. Wuemling	Tatum Drilling Co.	1963	75	5	75	Kp	1,200	36.70	Dec. 17, 1968	C, W	N	Perforated. Pump set at 72 ft. Reported yield 1 gpm. 1/
	501	Frederick S. Rice	do.	1963	199	4	199	Khe	1,005	160	Oct. 12, 1963	Sub, E 1/2	S	Completed from 140 to 160 and 175 to 199 ft. Pump set at 186 ft. Reported yield 10 gpm. 1/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	LA-41-16-801	C. H. Craig	J. K. Morrow	1959	235	10	235	Kgr, Khe	990	78 62.15	Jan. 26, 1960 Mar. 24, 1969	N	N	Perforated from 60 to 235 ft. Reported yield 350 gpm. Gravel packed. Texas Water Development Board observation well. 3/ 4/
	21-801	Mrs. Bert Mayfield	Tatum Drilling Co.	1962	371	4	371	Khe	1,570	--	--	C, E 1-1/2	D, S	Pump set at 360 ft. Reported yield 3.6 gpm. 1/
	22-402	Herman Rea	R. A. Adams and Son	1964	107	--	--	Kp	1,435	51.40	Dec. 12, 1968	C, W	D, S	Estimated yield 3 gpm. Temp. 70°F. 1/
*	501	O. F. Gromatzky	--	--	200	6	--	Khe	1,315	--	--	N	N	Reported yield 3 gpm when used. Temp. 62°F. Well plugged and abandoned.
*	502	Perry Karasek	Tatum Drilling Co.	1963	230	7 5	14 230	do.	1,325	160 166.78	July 15, 1963 Apr. 1, 1969	Sub, E 3/4	D	Perforated from 218 to 230 ft. Pumping level 200 ft at 6 gpm on July 15, 1963. Pump set at 225 ft. Cemented from 14 ft to surface. Temp. 72°F. Texas Water Development Board observation well. 1/ 4/
	503	O. F. Gromatzky	do.	1954	212	4	212	do.	1,322	150	1954	Sub, E 3/4	P	Slotted from 185 to 212 ft. Bailing level 155 ft at 18 gpm in 1954. Pump set at 200 ft. Estimated yield 19 gpm. Cemented from 19 ft to surface
	702	C. O. Schulz	do.	1963	317	6 5	29 317	do.	1,445	240 242.8	Oct. 7, 1963 Apr. 13, 1966	Sub, E 1	D	Perforated. Pumping level 270 ft at 12 gpm on Oct. 7, 1963. Pump set at 300 ft. Cemented from 20 to 28 ft. 1/
	23-101	J. R. Bailey	--	1919	300	5	--	do.	1,330	229	Mar. 16, 1960	C, W	S	
*	301	City of Hamilton	J. L. Myers Sons	1948	600	16 10 8	72 516 600	do.	1,275	388	Jan. 28, 1960	Sub, R 15	P	Perforated from 516 to 585 ft. Pumping level 506 ft at 52 gpm on May 31, 1962. Pump set at 506 ft. 1/ 2/
*	302	Adelle May	Tatum Drilling Co.	1965	130	5	130	Kp	1,301	70 94.20	Mar. 11, 1965 Dec. 17, 1968	Sub, E 1/3	D	Perforated from 110 to 130 ft. Pump set at 120 ft. Reported yield 5 gpm. Cemented from 30 ft to surface. Temp. 67°F. 1/
	401	Jack R. Raney	L. W. Little Drilling Co.	1961	362	4	362	Khe	1,380	341 304.85	Aug. 5, 1961 Dec. 13, 1968	C, E 1/2	S	Slotted from 320 to 362 ft. Pumping level 341 ft at 8 gpm on Sept. 5, 1961. Pump set at 348 ft. Gravel packed. 1/
	503	Edwin Crain	Tatum Drilling Co.	1963	46	5	46	Kp	1,290	20 21.90	Feb. 26, 1963 Dec. 17, 1968	J, E 3/4	S	Slotted from 34 to 46 ft. Pump set at 40 ft. Reported yield 20 gpm. 1/
	601	Perry Country Club	Leon Drilling Co.	1967	340	6	340	Kgr, Khe	1,240	245	Aug. 11, 1967	Sub, K 1-1/2	P	Slotted from 230 to 245 and 300 to 325 ft. Pumping level 317 ft at 16 gpm in 1967. Pump set at 317 ft. Reported yield 15 gpm. Gravel packed. 1/
*	603	Hamilton Industrial Air Park	Tatum Drilling Co.	1964	137	5	135	Kp	1,300	70 89.75	Apr. 10, 1964 Dec. 13, 1968	C, E	D	Perforated. Pumping level 125 ft at 3 gpm on Apr. 10, 1964. Pump set at 127 ft. Temp. 54°F. 1/
	24-101	O'Dell Ranch	L. W. Little Drilling Co.	1961	460	4	460	Khe, Kpe	1,145	320	Feb. 25, 1961	C, E 1	D, S	Slotted from 408 to 460 ft. Pumping level 320 ft at 12 gpm on Feb. 25, 1961. Estimated yield 35 gpm. 1/
	102	Dennis G. Harris	R. A. Adams and Son	--	301	7 5	36 301	Kgr, Khe	1,164	--	--	C, W	D, S	Pump set at 286 ft. Reported yield 9 gpm. 1/
*	401	City of Hamilton	J. L. Myers Sons	1948	601	16 12 10	5 507 601	Khe, Kho	1,160	432 287.1	Mar. 31, 1961 Mar. 24, 1969	Sub, E 35	P	Perforated and cemented. Pumping level 364 ft at 103 gpm on May 17, 1965. Reported yield 80 gpm Texas Water Development Board observation well. 1/ 2/ 3/ 4/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* LA-41-24-402	City of Hamilton	J. R. Morrow	--	460	10 8	-- --	Khe	1,150	--	--	N	N	Well plugged and abandoned.
* 403	do.	J. L. Myers Sons	1948	569	20 12 10	9 450 569	do.	1,240	--	--	Sub, E 30	P	Perforated from 450 to 490 and 510 to 569 ft. Pumping level 458 ft at 95 gpm on June 2, 1965. Reported yield 90 gpm. Cemented from 450 ft to surface. 1/ 2/ 3/
* 404	do.	Jones Drilling Co.	--	540	12 10	90 540	Khe,Kpe Kho	1,124	333	May 31, 1961	Sub, E 15	P	Perforated from 390 to 415, 445 to 480, and 510 to 540 ft. Reported yield 37 gpm.
* 405	J. C. Latham	L. W. Little Drilling Co.	1960	511	4	448	Khe	1,180	250	Oct. 16, 1960	C, E	S	Slotted from 348 to 367, 412 to 416, and 426 to 448 ft. Estimated yield 10 gpm. 1/
406	Lester Coalson	Tatum Drilling Co.	1964	439	7 5	47 439	do.	1,203	300 305.65	Sept. 4, 1964 Mar. 24, 1969	Sub, E 1-1/2	D, S	Perforated from 416 to 439 ft. Pumping level 340 ft at 18 gpm on Sept. 4, 1964. Pump set at 404 ft. Cemented from 47 ft to surface. Texas Water Development Board observation well. 1/ 4/
501	Herman B. Meester	L. W. Little Drilling Co.	1963	489	4	489	do.	1,170	370	June 17, 1963	C, E 3/4	D	Slotted from 440 to 489 ft. Pumping level 370 ft at 8 gpm on June 17, 1963. Pump set at 384 ft. Reported yield 3 gpm. Gravel packed. Cemented from 8 ft to surface. 1/
503	Frank Craig and Dewey Sellers	do.	1963	356	4	356	do.	1,085	310	Aug. 17, 1963	C, E 1	S	Slotted from 334 to 356 ft. Pumping level 310 ft at 8 gpm on Aug. 17, 1963. Pump set at 325 ft. Gravel packed. Cemented from 4 ft to surface. 1/
701	Roy Brazil	Tatum Drilling Co.	1964	515	5	441	Kgr,Khe	1,310	--	--	C, E 1	D	Perforated from 360 to 382 and 429 to 441 ft. Pump set at 458 ft. 1/
702	Gene Pruitt	do.	1964	485	5	485	do.	1,335	--	--	Sub, E 3/4	D	Perforated. Pump set at 460 ft. Cemented from 17 ft to surface. 1/
30-301	August Nieman	do.	1962	275	5	275	Khe	1,325	230	Aug. 25, 1962	C, G 1-1/2	S	Pumping level 245 ft at 5 gpm on Aug. 25, 1962. Pump set at 254 ft. Reported yield 3.5 gpm. Cemented from 38 to 47 ft. 1/
31-202	Mrs. J. W. Wagner	--	--	250	5	--	Kgr,Khe	1,233	194 184.53	Feb. 15, 1960 Mar. 24, 1969	N	N	Texas Water Development Board observation well. 4/
602	Rankin Russel	Tatum Drilling Co.	1962	324	5	324	Khe	1,268	280.95 288.1	Apr. 8, 1966 Mar. 24, 1969	Sub, E 1	D	Pump set at 307 ft. Reported yield 7 gpm. Cemented from 55 to 60 ft. Texas Water Development Board observation well. 1/ 4/
603	J. A. Millsap	--	--	101	--	101	Kp	1,265	54.37 54.25	Nov. 28 1966 Mar. 24, 1969	C, W	D, S	Perforated. Texas Water Development Board observation well. 4/
32-101	Jack Stribling	Tatum Drilling Co.	1964	275	5	275	Kgr	1,182	200 189.5	July 10, 1964 Mar. 17, 1967	Sub, E	S	Completed from 251 to 275 ft. Pumping level 235 ft at 12 gpm on July 10, 1964. Pump set at 265 ft. Texas Water Development Board observation well. 1/ 4/
102	Mary Ruth Pruitt	do.	1964	253	5	253	do.	1,175	--	--	Sub, E 1	D	Perforated. Pump set at 244 ft. Reported yield 5 gpm. Cemented from 24 ft to surface. 1/
* 104	Mrs. Ben Winkler	do.	1963	75	5	67	Kp	1,210	53 48.80	Mar. 20, 1963 Dec. 12, 1968	C, W	N	Perforated from 55 to 67 ft. Reported yield 2 gpm. Cemented from 15 ft to surface. Temp. 68°F. 1/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* (A-41-32-507	Charles Easterling	Tatum Drilling Co.	1963	390	5	368	Kgr, Khe	1,201	300 256.8	Nov. 1, 1963 Mar. 24, 1969	C, E I	D	Slotted from 295 to 310 ft. Open hole from 368 to 390 ft. Pumping level 340 ft at 12 gpm on Nov 1, 1963. Pump set at 356 ft. Reported yield 3.6 gpm. Cemented from 15 to 19 ft. Temp. 70°F. Texas Water Development Board observation well. 3/ 4/
* 38-201	Carl M. Casbeer	--	1963	147	5	147	Kp	1,453	104.85	Dec. 11, 1968	C, W	S	Perforated. Temp. 66°F. 1/

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I.
4/ For water-level measurements, see Table 4.

HAMILTON COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric; R, Radioactive; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
LA-40-09-401	Amerada Petroleum Corp.	John Briscoe No. 1	1949	4,471	1,185	E,R,S
17-201	Luling Oil and Gas, et al.	Ernest Phillips No. 1	1950	4,413	1,272	S
703	Louisiana Coastal Petroleum Corp.	E. B. James No. 1	1967	3,997	1,055	E
41-08-701	Shell Development Co.	Garland Parker No. 1	1960	170	1,260	E,D
14-802	C. I. Producing Co.	C. E. Lund No. 1	1944	3,453	1,307	S
15-701	Grady Wallace, et al.	J. H. Robertson No. 1	1942	3,501	1,250	S
16-201	Seaboard Oil Corp.	Fee No. 1	1937	4,438	1,223	S
202	Amerada Petroleum Corp.	L. S. Burney, et al. No. 1	1949	5,238	1,200	R,S
601	Andrews, Smith Dugger and Herring Drilling Co.	J. R. Parks No. 1	1962	4,310	1,167	E
902	General American Oil Co.	Warren Sibley No. 1	1949	4,372	1,159	E
21-602	Dolan and Pate	Orville Richardson No. 1	1960	—	1,485	S
22-101	Lone Star Producing Co.	J. W. Harris No. 1	1966	2,725	1,427	E
401	Lone Star Gas Co.	E. J. Burks No. 1	1941	2,714	1,357	E
601	Shell Oil Co.	Jewell Christianson No. 1	1965	3,883	1,385	R
701	Lone Star Producing Co.	E. Riewe No. 1	1947	3,350	1,471	E
23-201	Amerada Petroleum Co.	Maude S. McIntyre No. 1	1951	3,456	1,254	E,S
202	Prince Brothers Drilling Co.	Petrey No. 1	1951	3,440	1,260	E
502	Amerada Petroleum Co.	Alice D. Cowling No. 1	1950	3,740	1,259	S
602	Shell Development Co.	W. R. Streger No. 1	—	141	1,305	E
24-502	American Liberty Oil Co.	Bywaters, et al. No. 1	1949	3,855	1,091	S
31-301	Walter H. Grant	S. P. Drake No. 1	1936	3,835	1,210	S
902	American Manufacturing Co.	T. W. Winters No. 1	1947	3,604	1,243	E,S
32-103	Phillips Petroleum Co.	Townson No. A-1	1956	6,398	1,192	E,R

Table 3.—Drillers' Logs of Selected Wells

Well LA-40-09-104

Owner: Marvin Porterfield
Driller: Tatum Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Caliche	24	24
Dark blue shale	54	78
Gray shale	36	114
Blue clay	20	134
White, sandy shale	10	144
Gray shale	19	163
White sand	5	168
Gray shale and limestone	216	384
Black sand	12	396
Sandy, blue shale	12	408

Well LA-40-09-203

Owner: Duncan Ranch
Driller: L. W. Little Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Surface rock	23	23
Hard, blue shale and limestone	119	142
Soft, blue shale	25	167
Water sand (Paluxy)	30	197
Hard limestone	7	204

Well LA-40-09-501

Owner: C. A. Bullard
Driller: Tatum Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Caliche	4	4
Limestone	1	5
Sandy shale	2	7
Blue shale	33	40
Limestone and white shale	30	70
Sticky, blue clay	20	90
Sandy shale and sandstone	20	110
Blue shale and limestone	40	150
Limestone (water) 24 gph	5	155
Limestone and blue shale	135	290
Sandy shale and clay (blue)	70	360
Sand	5	365
Blue clay and sandy clay	55	420

Well LA-40-09-501—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Water sand	5	425
Blue clay (sandy)	7	432

Well LA-40-09-801

Owner: Lydia Nele
Driller: Clarence Erickson

	THICKNESS (FEET)	DEPTH (FEET)
Hard layers rock and clay	8	8
Yellow clay	2	10
Blue soapstone	2	12
Hard, gray rock	68	80
Blue shale	10	90
White rock	70	160
Broken lime	20	180
Hard lime rock	90	270
Gray shale	33	303
Green shale	2	305
Paluxy sand and water	15	320
Black shale	4	324
Hard lime rock	8	332

Well LA-40-09-901

Owner: J. D. Lawson
Driller: L. W. Little Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Surface	15	15
Hard, white limestone	4	19
Blue shale and limestone	156	175
Fine, white sand	7	182
Blue shale and limestone	30	212
Very hard, white limestone	48	260
Blue shale and limestone	101	361
White limestone and shale	78	439
Sand	6	445
Green shale	5	450
Sand	6	456
Hard sand rock	1	457
Sandy shale	4	461
Sand	4	465
Black shale	30	495

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LA-40-09-901—Continued		
Sand	2	497
Black shale	8	505
Well LA-40-17-702		
Owner: A. G. Thompson Driller: Tatum Drilling Co.		
Caliche	19	19
Gray shale and limestone	206	225
Crystal sandstone	3	228
Sandy shale	42	270
Water sand	8	278
Sandy shale	37	315
Brown, porous limestone (water)	10	325
White limestone	2	327
Well LA-40-18-702		
Owner: John Calverts Driller: R. A. Adams and Son		
Yellow clay and chalk	20	20
Gray lime	51	71
Shale and lime	35	106
Sandy lime	9	115
Sand	5	120
Blue shale	4	124
Glen Rose, 8 in. hard	14	138
Glen Rose, 6 in. hard	178	316
Green shale	5	321
Glen Rose lime	102	423
Green shale and lime	5	428
Blue shale	6	434
Sandy lime	4	438
Sandy lime and shale	6	444
Sandy lime	34	478
Green shale	5	483
Sand and water	19	502
Black shale	4	506
Red, sandy shale	9	515
Sand and water	13	528

	THICKNESS (FEET)	DEPTH (FEET)
Well LA-40-25-301		
Owner: W. A. Suggs Driller: R. A. Adams and Son		
Surface sand and gravel	12	12
Glen Rose lime	288	300
Little sand and water	20	320
Shale and lime streaks	50	370
Sand and lime	10	380
Sand and water	23	403
Well LA-41-07-502		
Owner: C. M. Roberson Driller: Tatum Drilling Co.		
Caliche and limestone	32	32
Blue shale	23	55
Sand	9	64
Sandy, blue clay	25	89
Water sand	13	102
Blue shale	6	108
Well LA-41-08-201		
Owner: J. P. Cattle Co. Driller: Tatum Drilling Co.		
Caliche	18	18
Blue shale and limestone	101	119
Gray shale	51	170
Sandy, blue shale	15	185
Dark sand	15	200
Green, sandy shale	25	225
Black sand	10	235
Sandy, blue shale	10	245
Black water sand	15	260
Blue shale	4	264
Well LA-41-08-302		
Owner: City of Hico Driller: Jones and Duncan		
Surface	3	3
Lime	164	167
Sand	5	172
Hard rock	1	173
Sand and water	21	194

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-08-302—Continued		
Green mud	3	197
Sand rock	7	204
Water	6	210
Hard sand	7	217
Sand and water	17	234
Sand rock	12	246
Green muck	6	252
Coarse sand	25	277
Water	29	306
Rock	1.5	307.5
Water	3.5	311
Well LA-41-08-303		
Owner: Bluebonnet Country Club Driller: Leon Drilling Co.		
Caliche and boulders	15	15
Broken lime	60	75
Gray lime	50	125
Broken lime - shale	28	153
Gray shale - shells	42	195
Water sand - trace water	25	220
Hard sand - shells - shale	20	240
Water sand and gravel	40	280
Hard, sandy lime	7	287
Water sand and gravel - trace water	23	310
Sandy shale and shells	20	330
Red rock - shale - sandy	14	344
Well LA-41-08-502		
Owner: Billy Glidewell Driller: Jones Drilling Co.		
Topsoil	1	1
Substrata	5	6
Yellow shale	14	20
Blue shale	10	30
Lime rock	10	40
Blue shale	10	50
Lime rock	20	70
Blue shale	2	72
Lime rock	23	95
Blue shale	2	97
Lime rock	13	110
Blue shale	3	113
Lime rock	167	280
Sandy shale	60	340
Top, water strata	18	358
Well LA-41-08-702		
Owner: — Bulman Driller: Leon Drilling Co.		
Caliche	30	30
Hard sand (trace water)	35	65
Gray lime - shale	85	150
Gray lime	15	165
Lime - shale	25	190
Gray shale - shells	70	260
Dark, sandy shale	40	300
Water sand and shells	40	340
Gray lime	5	345
Well LA-41-14-801		
Owner: Lund Ranch Driller: Tatum Drilling Co.		
Pack sand	30	30
Limestone and blue shale	190	220
Sandy shale	25	245
Sand and gravel	20	265
Brown limestone	8	273
Well LA-41-15-301		
Owner: Mrs. R. D. Ford Driller: Tatum Drilling Co.		
Caliche	22	22
Dark blue shale	20	42
Black water sand	14	56
White limestone	4	60
Well LA-41-15-501		
Owner: J. L. Roberson Driller: Stewart Drilling Co. (Partial log)		
No record	7	7
Sand and gravel	43	50

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-15-501—Continued		
White rock	12	62
Sand and gravel	25	87
Red bed with gravel streaks	86	173
Sand and gravel	34	207
Well LA-41-16-203		
Owner: H. D. Wuemling Driller: Tatum Drilling Co.		
Caliche	14	14
Blue shale and limestone stringers	46	60
Water sand	7	67
Blue shale	8	75
Well LA-41-16-501		
Owner: Frederick S. Rice Driller: Tatum Drilling Co.		
Limestone and caliche	15	15
Blue shale	99	114
Sandy, blue shale	26	140
Water sand, 3.5 gpm	10	150
Sandy, blue shale	25	175
Water sand	10	185
Dark blue clay	14	199
Well LA-41-21-801		
Owner: Mrs. Bert Mayfield Driller: Tatum Drilling Co.		
Weathered limestone	23	23
Blue shale and limestone	87	110
Sandy, blue shale	30	140
Blue shale and limestone	48	188
Water sand, 1.5 gpm	5	193
Blue shale and limestone	92	285
Sandy, blue clay	60	345
Crystal sandstone, very hard	3	348
Blue clay	10	358
Sand and gravel	12	370
Blue clay	1	371
Well LA-41-22-402		
Owner: Herman Rea Driller: R. A. Adams and Son		
Soil and chalk rock	15	15
Lime	31	46
Paluxy, 2 gpm	22	68
Glen Rose	39	107
Well LA-41-22-502		
Owner: Perry Karasek Driller: Tatum Drilling Co.		
Caliche and limestone	14	14
White lime	16	30
Blue shale	116	146
Dark blue, sandy clay	4	150
Gray shale	23	173
Water sand	6	179
Gray, sandy shale	17	196
Red bed	8	204
Water sand	6	210
Green, sandy shale	10	220
Water sand	10	230
Well LA-41-22-702		
Owner: C. O. Schulz Driller: Tatum Drilling Co.		
Caliche and sandstone	28	28
Blue shale	47	75
Water sand, 2 gpm	10	85
Blue shale and limestone	160	245
Blue, sandy shale and clay	47	292
Water sand	13	305
Porous, brown limestone	10	315
White limestone	2	317
Well LA-41-23-301		
Owner: City of Hamilton Driller: J. L. Myers Sons		
Surface soil	2	2
Clay	3	5
Rock and clay	9	14
Lime and clay	23	37

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-23-301—Continued		
Rock and shale	11	48
Sandy	49	97
Sandy shale	19	116
Lime	144	260
Shale and lime	28	288
Lime	10	298
Sand	4	302
Broken lime and shale	2	304
Shale	12	316
Lime and sandy shale	29	345
Lime	8	353
Red mix shale	12	365
Sand	13	378
Lime	6	384
Broken lime and sand	24	408
Sand	19	427
Red bed	23	450
Mixture shale	20	470
Sand	31	501
Hard rock	2	503
Sand	72	575
Lime	25	600
Well LA-41-23-302		
Owner: Mrs. Adelle May Driller: Tatum Drilling Co.		
Caliche and limestone	27	27
Limestone and blue shale	42	69
Dark blue shale	19	88
Sandstone and sand	28	116
Gray, sandy shale	7	123
Limestone	7	130
Well LA-41-23-401		
Owner: Jack R. Raney Driller: L. W. Little Drilling Co.		
Surface	2	2
Yellow clay	33	35
Blue shale and limestone	55	90
Hard, white limestone	18	108
White sand	12	120
White limestone and shale streaks	36	156
Blue shale and limestone streaks	140	296
Green sand (fine)	5	301
Green shale	3	304
Hard sand rock	4	308
Blue shale and limestone	20	328
Water sand (fine)	20	348
Shale and sand streaks	8	356
Water sand (fine)	4	360
Hard sandstone	2	362
Well LA-41-23-503		
Owner: Edwin Crain Driller: Tatum Drilling Co.		
Caliche	16	16
Pack sand	10	26
Water sand	11	37
Blue shale	9	46
Well LA-41-23-601		
Owner: Perry Country Club Driller: Leon Drilling Co.		
Yellow clay - shells	30	30
Gray shale and shells	70	100
Broken lime - shale	100	200
Gray lime	30	230
Sandy shale - trace water	15	245
Sandy lime - shale	15	260
Sandy shale - trace water	10	270
Sandy lime - shale	30	300
Water sand	23	323
Sandy lime	7	330
Red shale - shells	10	340
Well LA-41-23-603		
Owner: Hamilton Industrial Air Park Driller: Tatum Drilling Co.		
Caliche	10	10
Blue shale	30	40

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-23-603—Continued		
Gray shale	35	75
Water sand	20	95
Sandstone	10	105
White limestone	20	125
Brown, porous limestone	7	132
Blue limestone	5	137
Well LA-41-24-101		
Owner: O'Dell Ranch Driller: L. W. Little Drilling Co.		
Surface	4	4
Blue shale and hard, blue lime rock	103	107
Hard, blue lime rock with shale streaks	95	202
Very hard, blue lime rock	8	210
Hard, blue lime rock with shale streaks	80	290
Fine, green sand	6	296
Green, sandy shale	24	320
Hard sand rock with shale streaks	11	331
Hard lime rock	31	362
Hard, red shale	41	403
Fine, green sand, turning to coarse white sand	10	413
Hard, black shale	5	418
Red shale	5	423
White, coarse sand	5	428
Red shale	21	449
White, coarse sand	3	452
Red shale	8	460
Well LA-41-24-102		
Owner: Dennis G. Harris Driller: R. A. Adams and Son		
Surface	2	2
Paluxy sand	21	23
Glen Rose limestone	193	216
Sand-no water	7	223
Green and blue shale	2	225
Glen Rose sand and water, 2.5 gpm	24	249
Lime and shale streaks	11	260
Sand and water, 2.5 gpm	5	265
Sand and water, 4 gpm	32	297
Green shale	4	301
Well LA-41-24-401		
Owner: City of Hamilton Driller: J. L. Myers Sons		
Soil	4	4
Rock	59	63
Lime	68	131
Sand	10	141
Sandy lime	13	154
Lime and shale	95	249
Sand	30	279
Shale and lime	70	349
Sandy lime	20	369
Sand	71	440
Lime	70	510
Sand	67	577
Shale and lime	24	601
Well LA-41-24-403		
Owner: City of Hamilton Driller: J. L. Myers Sons		
Surface soil	2	2
Rock and clay	26	28
Sand, gravel and shell	8	36
Sand	33	69
Rock	9	78
Lime	220	298
Shale and lime	141	439
Sandy lime	31	470
Sand	94	564
Shale	5	569
Well LA-41-24-405		
Owner: J. C. Latham Driller: L. W. Little Drilling Co.		
Surface	14	14
Hard limestone	2	16

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-24-405—Continued		
Blue shale and boulders	17	33
Blue limestone with shale breaks	199	232
Hard, brown limestone	6	238
Blue - green shale	37	275
Hard, blue shale with lime streaks	43	318
Hard, dark fine sand	18	336
Hard sand rock	3	339
White shale with shell breaks	9	348
Hard sand rock	12	360
Coarse, white sand	4	364
Hard sand rock	3	367
Hard lime with brown granite	10	377
Hard, blue shale	5	382
Red shale	30	412
Hard sand	4	416
Blue shale	10	426
Sand with shale breaks	26	452
Shale with sand breaks	21	473
Hard sand rock	3	476
Hard, blue shale and limestone	35	511
Well LA-41-24-406		
Owner: Lester Coalson Driller: Tatum Drilling Co.		
Sand	39	39
Limestone and gray shale	199	238
Sandy shale	35	273
Blue soapstone	8	281
Green, sandy shale	14	295
Red water sand	15	310
Sandy shale and clay	50	360
Red bed	55	415
Water sand and gravel	24	439
Well LA-41-24-501		
Owner: Herman B. Meester Driller: L. W. Little Drilling Co.		
Surface	5	5
Yellow clay	25	30
Hard, blue shale and limestone	229	259
Fine sand and limestone shells	57	316
Hard, white limestone	16	332
White shale and limestone	46	378
Red bed	52	430
Light green shale (soft)	11	441
Red beds	13	454
Hard sand (Travis Peak)	32	486
Red beds	3	489
Well LA-41-24-503		
Owner: Frank Graig and Dewey Sellers Driller: L. W. Little Drilling Co.		
Surface	9	9
Blue limestone	221	230
Sand	17	247
Blue limestone	5	252
Sand	14	266
Blue limestone	19	285
Sand	7	292
Hard, blue shale	8	300
Sand	12	312
Blue limestone	18	330
Green shale	2	332
Red shale	4	336
Coarse, white sand	18	354
Red shale	2	356
Well LA-41-24-701		
Owner: Roy Brazil Driller: Tatum Drilling Co.		
Caliche and limestone	18	18
Blue shale and limestone	90	108
Blue clay	14	122
Sandy, blue clay	18	140

Table 3.—Drillers Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-24-701—Continued		
Brown sand	7	147
Blue shale and limestone	213	360
Sandstone	27	387
Blue and green, sandy shale	48	435
Red bed	3	438
Crystal limestone	3	441
Dry, porous brown limestone	27	468
White, sandy shale and sandstone	22	490
Red bed	25	515
Well LA-41-24-702		
Owner: Gene Pruitt Driller: Tatum Drilling Co.		
Caliche and rock	16	16
Blue soapstone	11	27
Dark gray shale	83	110
Light gray shale	33	143
Dark soapstone	15	158
Gray sand	20	178
Gray shale	221	399
Cap rock	1	400
Sandy shale	10	410
Water sand	10	420
Sandy shale	44	464
Porous, brown limestone	15	479
Limestone	6	485
Well LA-41-30-301		
Owner: August Nieman Driller: Tatum Drilling Co.		
Caliche and limestone	16	16
Sandy clay, yellow	22	38
Sand, water, .5 gpm	5	43
White shale and blue shale	195	238
Sandy, blue clay	18	256
Sand and sandstone	16	272
Blue shale	3	275
Well LA-41-31-602		
Owner: Rankin Russel Driller: Tatum Drilling Co.		
Caliche	31	31
Pack sand	29	60
Sandy shale and clay	120	180
Blue shale and limestone	90	270
Black sand (2 gpm)	20	290
Blue clay	10	300
Red bed	5	305
Sand	5	310
Blue, sandy shale	14	324
Well LA-41-32-101		
Owner: Jack Stribling Driller: Tatum Drilling Co.		
Caliche	14	14
Yellow sand	11	25
Red sand	10	35
Yellow sand	3	38
White limestone and gray shale	206	244
Sandy shale	6	250
Water sand (black)	12	262
Sandy shale	13	275
Well LA-41-32-102		
Owner: Mary Ruth Pruitt Driller: Tatum Drilling Co.		
White sand	18	18
Yellow sand	6	24
Blue shale	15	39
Gray shale	186	225
Black, water sand (charcoal)	12	237
Gray shale	8	245
Sandstone	2	247
Gray soapstone	6	253
Well LA-41-32-104		
Owner: Mrs. Ben Winkler Driller: Tatum Drilling Co.		
Topsoil	3	3
Caliche	11	14

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-32-104—Continued		
Blue clay	31	45
Water sand	20	65
White lime	10	75
Well LA-41-32-501		
Owner: Charles Easterling Driller: Tatum Drilling Co.		
Caliche	19	19
Blue shale	17	36
Dark blue clay	15	51
White sand	5	56
White limestone and blue shale	239	295
Blue clay	3	298
Water sand, 2 gpm	9	307
Green, rotten, sandy shale	61	368
White limestone	3	371
Brown, porous limestone	14	385
White limestone	5	390
Well LA-41-38-201		
Owner: Carl M. Casbeer Driller: Unknown		
Yellow clay	20	20
White lime	90	110
Gray water sand	30	140
White lime	7	147

HAMILTON COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

Well LA-40-01-701

Owner: D. M. Proffitt

DATE	WATER LEVEL
Apr. 6, 1966	317.57
Mar. 9, 1967	320.50
Apr. 1, 1969	321.8

Well LA-40-09-103

Owner: H. O. Richardson

DATE	WATER LEVEL
Mar. 25, 1966	304.3
Aug. 25, 1966	255.02
Sept. 28, 1966	266.65
Oct. 31, 1966	302.7
Nov. 28, 1966	303.3
Dec. 29, 1966	304.2
Mar. 9, 1967	303.6
May 2, 1967	269.2
June 6, 1967	300.1
June 29, 1967	267.57
Sept. 12, 1967	309.0
Oct. 4, 1967	303.6
Dec. 1, 1967	298.5
Jan. 4, 1968	302.3
Mar. 24, 1969	230.1

Well LA-40-09-201

Owner: Duncan Ranch

DATE	WATER LEVEL
Mar. 25, 1966	379.3
Oct. 31, 1966	385.27
Nov. 28, 1966	382.34
Dec. 29, 1966	382.13
Feb. 7, 1967	381.99
Mar. 9, 1967	381.95
May 2, 1967	385.88
June 6, 1967	383.74
June 29, 1967	383.68
Aug. 2, 1967	383.96
Sept. 12, 1967	391.14

Well LA-40-09-201—Continued

DATE	WATER LEVEL
Oct. 4, 1967	385.59
Nov. 6, 1967	393.19
Dec. 1, 1967	385.99
Jan. 4, 1968	385.86
Feb. 6, 1968	387.80
Mar. 18, 1968	385.10
Mar. 24, 1969	386.20

Well LA-40-17-702

Owner: A. G. Thompson

DATE	WATER LEVEL
Sept. 10, 1964	250
Apr. 11, 1966	224.72
Mar. 17, 1967	218.40
Mar. 24, 1969	223.60

Well LA-41-07-501

Owner: M. K. Taylor

DATE	WATER LEVEL
Mar. 17, 1967	37.72
Mar. 12, 1968	27.77
Apr. 1, 1969	37.55

Well LA-41-08-201

Owner: J. P. Cattle Co.

DATE	WATER LEVEL
Dec. 9, 1963	235
Apr. 6, 1966	229.4
May 19, 1967	233.20
Apr. 1, 1969	228.5

Well LA-41-08-301

Owner: City of Hico

DATE	WATER LEVEL
Oct. 23, 1964	160
Jan. 5, 1965	198
Apr. 6, 1966	201.01
Mar. 9, 1967	202.3
Mar. 12, 1968	202.58
Apr. 2, 1969	203.1

Well LA-41-08-302

Owner: City of Hico

DATE	WATER LEVEL
1933	177
Dec. 16, 1959	160
Apr. 6, 1966	200.63

Well LA-41-08-502

Owner: Billy Glidewell

DATE	WATER LEVEL
Apr. 6, 1966	323.65
Mar. 17, 1967	327.22
Mar. 12, 1968	325.37
Apr. 1, 1969	327.75

Well LA-41-14-801

Owner: Lund Ranch

DATE	WATER LEVEL
Mar. 27, 1965	228
Apr. 13, 1966	244.3
Mar. 22, 1967	246.6
Mar. 12, 1968	246.0
Apr. 1, 1969	246.9

Well LA-41-15-501

Owner: J. L. Roberson

DATE	WATER LEVEL
Jan. 26, 1960	18
Apr. 12, 1966	24.02
Mar. 22, 1967	23.22
Apr. 1, 1969	20.75

Well LA-41-16-801

Owner: C. H. Craig

DATE	WATER LEVEL
Jan. 26, 1960	78
Apr. 1, 1966	70.65
Mar. 17, 1967	75.78
Mar. 24, 1969	62.15

Table 4.—Water Levels in Selected Wells in Hamilton County—Continued

DATE	WATER LEVEL
Well LA-41-22-502	
Owner: Perry Karasek	
July 15, 1963	160
Apr. 13, 1966	163.11
Nov. 28, 1966	163.27
Jan. 2, 1967	162.80
Feb. 9, 1967	162.90
Mar. 22, 1967	163.35
May 2, 1967	164.82
June 29, 1967	170.67
Aug. 2, 1967	170.36
Oct. 5, 1967	167.99
Nov. 9, 1967	167.50
Dec. 5, 1967	167.17
Jan. 15, 1968	168.85
Mar. 12, 1968	161.17
Apr. 1, 1969	166.78
Well LA-41-24-401	
Owner: City of Hamilton	
Mar. 31, 1961	432
May 17, 1965	320.14
Apr. 7, 1966	290.06
Aug. 25, 1966	301.99
Sept. 26, 1966	288.9
Oct. 31, 1966	288.2
Dec. 29, 1966	308.50

DATE	WATER LEVEL
Well LA-41-24-401—Continued	
Mar. 17, 1967	289.19
May 2, 1967	294.08
June 6, 1967	292.10
June 28, 1967	286.97
Aug. 2, 1967	290.91
Sept. 12, 1967	292.22
Oct. 4, 1967	292.21
Nov. 6, 1967	286.95
Dec. 1, 1967	286.60
Jan. 4, 1968	286.63
Feb. 6, 1968	286.25
Mar. 12, 1968	285.92
Mar. 24, 1969	287.1
Well LA-41-24-406	
Owner: Lester Coalson	
Sept. 4, 1964	300
June 2, 1965	313.15
Apr. 7, 1966	306.45
Mar. 17, 1967	301.75
Mar. 24, 1969	305.65
Well LA-41-31-202	
Owner: Mrs. J. W. Wagner	
Feb. 15, 1960	194
Apr. 8, 1966	191.25

DATE	WATER LEVEL
Well LA-41-31-202—Continued	
Apr. 12, 1967	191.90
Mar. 13, 1968	188.04
Mar. 24, 1969	184.53
Well LA-41-31-602	
Owner: Rankin Russel	
Apr. 8, 1966	280.95
Aug. 26, 1966	264.65
Sept. 26, 1966	260.0
Mar. 19, 1968	284.3
Mar. 24, 1969	288.1
Well LA-41-31-603	
Owner: J. A. Millsap	
Nov. 28, 1966	54.37
Dec. 29, 1966	54.17
Feb. 7, 1967	56.02
Apr. 12, 1967	53.81
May 2, 1967	54.30
June 28, 1967	54.40
Mar. 14, 1968	54.47
Mar. 24, 1969	54.25
Well LA-41-32-101	
Owner: Jack Stribling	
July 10, 1964	200
Apr. 12, 1966	199.6
Mar. 17, 1967	189.5
Well LA-41-32-501	
Owner: Charles Easterling	
Nov. 1, 1963	300
Mar. 19, 1968	241.4
Mar. 24, 1969	256.8

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

	WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																	REPORTED	RECALCULATED					
	LA-40-09-203	204	Dec. 17, 1968	Kp	10	0.40	8	3	234	--	401	157	38	1.6	< 0.4	--	650	--	33	94	1,030	8.0	17.9
1/	601	60	Mar. 10, 1960	do.	8.6	--	109	7.3	* 78	--	324	92	59	0.4	32	--	562	546	302	36	895	7.2	1.9
1/	17-501	390	Mar. 9, 1960	Khe	10	--	6.8	4.6	* 366	--	450	260	130	2.4	2.5	--	1,000	--	36	96	1,630	7.9	26.5
	702	327	Sept. 4, 1968	do.	8	--	12	13	450	--	500	373	168	5.4	3.5	--	1,280	--	85	94	2,000	7.8	24.8
1/	18-701	60	Apr. 19, 1960	Kf	11	--	138	2.7	* 13	--	392	18	16	--	27	--	455	419	356	7	--	6.8	0.3
1/	41-07-501	100	Jan. 26, 1960	Kp	9.8	.38	136	1.4	* 48	--	339	54	42	.3	70	--	545	529	346	23	833	7.2	1.1
	08-201	264	Sept. 4, 1968	Khe	13	--	58	37	52	--	329	106	30	.4	< .4	--	458	--	299	28	750	7.6	1.3
	301	600	Dec. 15, 1951	Ktp	14	.52	70	39	* 31	--	348	63	36	.2	< .4	--	394	426	335	17	--	7.4	.7
	301	600	Mar. 4, 1959	do.	--	.08	64	36	24	--	339	48	30	.3	< .4	--	432	370	310	14	720	7.0	.6
	301	600	May 13, 1963	do.	--	.18	--	--	--	--	348	45	29	.5	< .4	--	550	--	315	--	744	--	--
	302	311	Dec. 15, 1951	Khe, Kpe	16	.15	67	36	* 44	--	354	67	36	.2	< .4	--	395	441	315	23	--	7.6	1.1
	302	311	Mar. 4, 1959	do.	--	.08	63	35	25	--	337	48	30	.3	< .4	--	430	368	305	15	716	6.9	.6
1/	302	311	Dec. 16, 1959	do.	16	--	67	33	* 34.3	--	344	50	30	.4	.8	0.19	401	--	302	20	685	7.1	.9
	302	311	May 13, 1963	do.	--	.12	66	35	29	--	348	48	29	.5	< .4	--	560	379	329	17	750	--	.7
1/	501	240	Apr. 17, 1961	Kgr	12	--	38	26	* 105	--	273	109	66	--	.2	--	490	--	202	53	839	7.6	3.2
	14-801	273	Sept. 4, 1968	Khe	12	--	29	23	126	--	388	80	33	.9	< .4	--	495	--	167	62	825	7.8	4.2
	15-301	60	Dec. 18, 1968	Kp	9	1.08	86	8	13	--	287	20	11	.6	< .4	--	289	--	246	10	488	7.4	.4
1/	501	210	Jan. 26, 1960	Khe, Kho	18	3.6	102	28	* 43.6	--	387	104	28	--	.2	.07	514	--	370	20	814	7.2	.9
	22-402	107	Dec. 12, 1968	Kp	21	--	204	78	33	--	206	620	52	2.4	< .4	--	1,110	--	830	8	1,450	6.8	.5
1/	501	200	Mar. 19, 1946	Khe	12	3.6	63	24	* 163	--	411	144	74	.6	2.5	--	678	689	256	58	1,110	7.7	4.4
	502	230	Sept. 3, 1968	do.	10	--	32	22	250	--	407	227	112	1.4	1	--	860	--	170	76	1,400	7.5	8.3
	23-301	600	Mar. 31, 1952	do.	17	1.2	21	13	* 275	--	415	205	107	1	4.9	--	815	849	106	85	--	7.6	11.6
	301	600	June 19, 1961	do.	--	.45	14	10	282	--	405	146	134	.8	1.6	--	859	788	79	94	1,432	7.4	19.8
	302	130	Dec. 17, 1968	Kp	18	.28	94	16	16	--	331	42	10	1	< .4	--	360	--	302	10	580	7.8	.4
	603	137	Dec. 13, 1968	do.	13	--	47	21	133	--	372	161	25	1.5	3.5	--	590	--	205	59	935	7.8	4.0
	24-401	601	Dec. 15, 1948	Khe, Kho	18	.25	26	14	* 304	--	397	102	249	.7	< .4	--	888	909	123	84	--	7.7	11.9

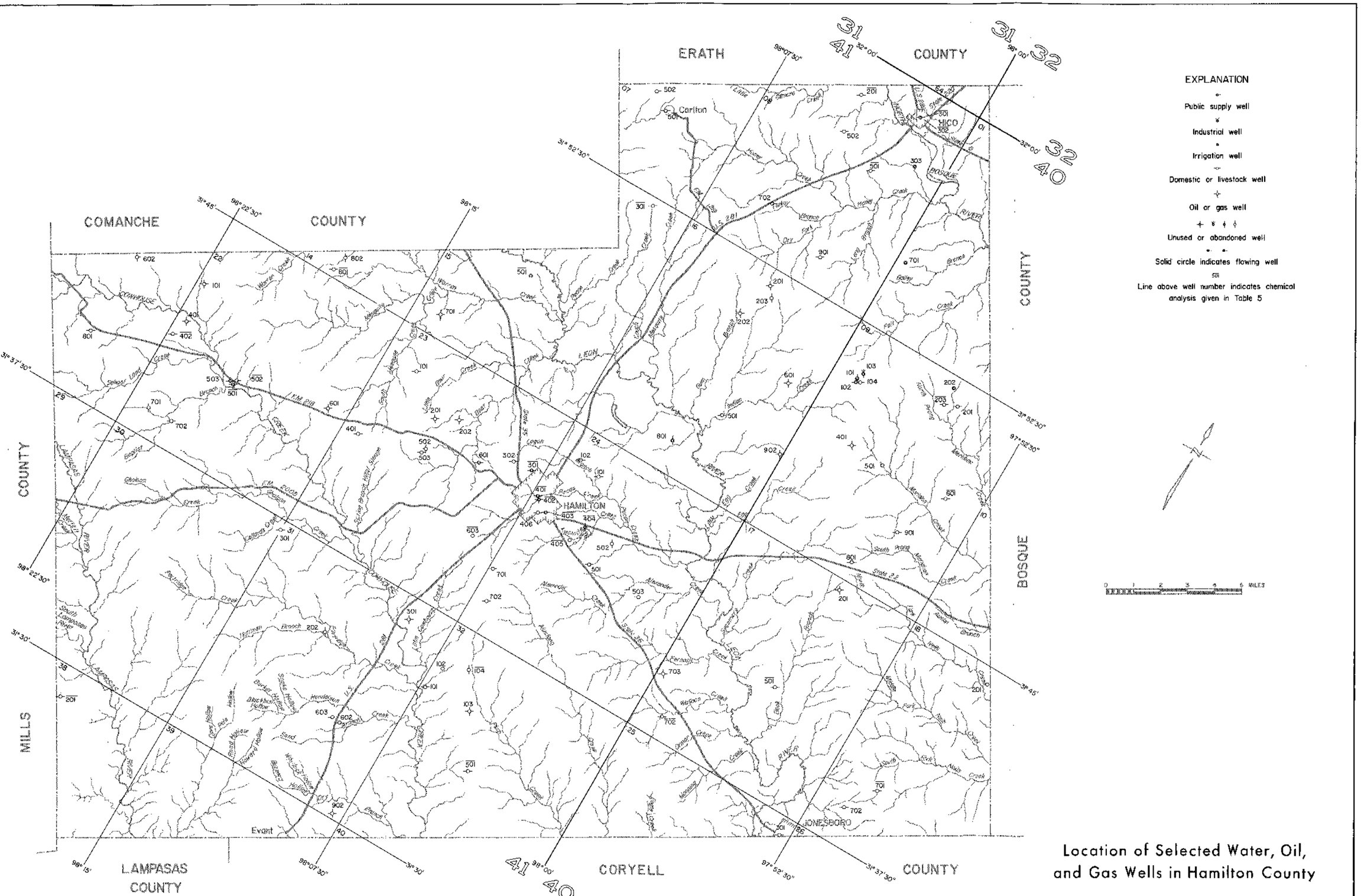
Footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
LA-41-24-401	601	Jan. 21, 1952	Khe, Kho	12	0.22	20	13	* 294	--	415	145	178	0.7	< 0.4	--	874	--	104	86	--	8.1	12.5
1/ 401	601	Feb. 2, 1960	do.	12	.12	15	9.8	* 296	--	395	136	181	.9	.2	0.96	846	--	78	89	1,430	7.5	16.5
401	601	June 28, 1961	do.	--	.12	14	10	295	--	414	124	160	.7	< .4	--	902	808	75	94	1,504	7.8	20.7
401	601	Mar. 20, 1963	do.	--	.10	15	10	287	--	400	124	190	1	< .4	--	1,030	825	79	94	1,524	7.7	19.2
402	460	Dec. 26, 1961	Khe	--	1.4	14	4	340	--	393	240	121	2	.7	--	996	916	51	93	1,660	8.0	20.5
403	569	Apr. 1958	do.	--	.28	12	7	* 312	--	360	119	134	1	.4	--	998	763	60	92	1,663	8.0	17.6
403	569	Nov. 14, 1961	do.	--	.72	14	9	316	--	397	149	198	.9	< .4	--	984	883	72	91	1,640	7.7	16.2
404	540	Aug. 1955	Khe, Kpe Kho	--	.2	12	6	* 335	--	340	248	131	1.8	3.5	--	996	905	55	93	--	8.2	19.7
404	540	July 6, 1961	do.	--	.17	11	7	321	--	420	219	120	2.5	.44	--	966	889	55	93	1,610	7.9	18.6
404	540	May 22, 1963	do.	--	1.8	10	7	315	--	411	239	124	1.7	2.5	--	1,110	904	55	93	1,662	7.8	18.8
1/ 405	511	Apr. 17, 1961	Khe	8.7	--	7.5	5	* 335	--	460	200	129	--	--	--	911	--	39	95	1,510	7.8	23.5
32-104	75	Dec. 12, 1968	Kp	12	.40	90	19	32	--	322	70	27	.5	< .4	--	409	--	305	19	670	7.7	0.8
501	390	Sept. 4, 1968	Kgr, Khe	7	--	55	26	301	--	368	399	138	2.2	5.5	--	1,120	--	245	73	1,750	7.8	8.4
38-201	147	Dec. 11, 1968	Kp	10	--	103	43	29	--	364	107	54	1	< .4	--	530	--	433	13	854	7.6	.6

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:
1/ U.S. Geological Survey Laboratory



Location of Selected Water, Oil, and Gas Wells in Hamilton County

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Khs, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane, or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING DIAMETER (in.)	CASING DEPTH (ft)	WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	WATER LEVEL DATE OF MEASUREMENT	METHOD OF LIFT	USE OF WATER	REMARKS
LM-32-53-701	U.S. Army Corp of Engineers	--	1963	835	4 3	805 835	Kho	600	3 39.70	Apr. 13, 1963 Mar. 7, 1969	Sub, E	P	Completed from 805 to 835 ft. Pumping level 66 ft at 13.1 gpm on May 31, 1962. Reported yield 10 gpm. Cemented from 805 ft to surface. Texas Water Development Board observation well. 1/ 4/
* 902	Blum Water Supply Corp.	J. L. Myers Sons	1962	934	12 8 5	2 415 934	Khe	640	150 132.65	Sept. 28, 1964 Mar. 7, 1969	T, E 10	P	Screened from 855 to 910 ft. Pumping level 180 ft at 124 gpm on Feb. 18, 1965. Pump set at 272 ft. Reported yield 190 gpm. Cemented from 855 ft to surface. Texas Water Development Board observation well. 1/ 3/ 4/
* 54-501	Edith Hood	--	--	40	36	--	Kwb	800	19 18.30	May 18, 1960 Mar. 4, 1969	J, E 1/2	D, S	Dug well with brick wall. Texas Water Development Board observation well. 4/
* 601	E. A. Harris	Ralph Haynes and North	1958	1,400	8 6	-- --	Khe	755	175 358.7	Aug. 31, 1958 Mar. 4, 1969	Sub, E 10	P	Pump set at 420 ft. Reported yield 80 gpm. Texas Water Development Board observation well. 4/
* 701	Gulf Oil Corp.	--	--	428	7 5 4	44 395 428	Kp	640	179.10 189.10	Feb. 18, 1965 Mar. 7, 1969	C, E 1	Ind	Completed from 385 to 428 ft. Pump set at 230 ft. Texas Water Development Board observation well. 4/
702	Jack Taylor	C. M. Stoner Drilling Co.	1963	1,063	4	1,063	Khe	705	220	Aug. 2, 1963	Sub, E	D, S	Slotted from 1,020 to 1,063 ft. Cemented from 1,020 ft to surface. 1/
* 55-304	Sam Card	do.	1964	273	7	273	Kwb	650	85 82.10	July 19, 1964 Mar. 3 1969	Sub, E 15	S	Slotted. Pump set at 233 ft. Gravel packed. Temp. 82°F. Texas Water Development Board observation well. 1/ 4/
601	-- Morris	do.	1964	305	7	305	do.	685	125.62 114.73	Dec. 15, 1965 Mar. 8, 1967	Sub, E 15	Ind	Completed from 125 to 305 ft. Pump set at 252 ft. Gravel packed. Texas Water Development Board observation well. 1/ 4/
602	Texas Highway Department	do.	1966	340	6	340	do.	680	150	July 29, 1966	Sub, E 5	P	Slotted from 168 to 340 ft. Pumping level 150 ft at 30 gpm on July 29, 1966. Pump set at 280 ft. Gravel packed. Cemented from 168 ft to surface. 1/
901	City of Itasca	C. Newman	1924	293	8	--	Kwb	703	114	1939	N	N	Reported yield 70 gpm when used. Well capped and abandoned.
* 902	do.	Layne Texas Co.	1939	1,835	8 6	1,725 1,835	Kho	702	153 237.7	Apr. 20, 1939 Mar. 3, 1969	Sub, E 15	P	Screened from 1,745 to 1,835 ft. Pump set at 512 ft. Reported yield 100 gpm. Cemented Texas Water Development Board observation well. 1/ 4/
* 903	do.	C. M. Stoner Drilling Co.	1953	312	4	312	Kwb	715	200	1954	T, E 10	P	Screened from 257 to 312 ft. Reported yield 55 gpm. Cemented from 257 ft to surface.
* 904	do.	Texas Water Wells	1956	1,856	10 8 6	1,008 1,661 1,856	Kho	709	284	June 15, 1956	T, E 40	P	Screened from 1,673 to 1,682, 1,704 to 1,724, 1,762 to 1,809, and 1,830 to 1,850 ft. Pumping level 442 ft at 171 gpm on June 15, 1956. Pump set at 550 ft. Reported yield 175 gpm. 1/ 3/ 4/
* 905	Itasca Cotton Manufacturing Co.	J. L. Myers Sons	1947	300	8 6	180 300	Kwb	695	135 145.0	May 19, 1960 Oct. 26, 1964	T, E 7-1/2	N	Pump set at 276 ft. Reported yield 50 gpm. 1/
906	do.	--	--	300	8	--	do.	690	136 140.0	May 19, 1960 Jan 4, 1966	T, E 7-1/2	Ind	Pump set at 276 ft. Reported yield 30 gpm.

See footnotes at end of table.

HILL COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
LR-32-55-907	City of Itasca	Hugh Stinson	1936	290	8	168	Kwb	702	150	1939	T, E 10	P	--
908	Harris Electric Co.	C. M. Stoner Drilling Co.	1966	316	7	316	do.	690	245	Nov. 2, 1966	Sub, E	Ind	Gun perforated with 10 shots 190 to 197 ft, 12 shots 208 to 235 ft, 13 shots 220 to 230 ft, 7 shots 245 to 250 ft, and 11 shots 275 to 295 ft. Cemented from 274 ft to surface. 1/
909	Ernest Whitfield	do.	1965	289	4	289	do.	670	123.28 113.52	Dec. 30, 1965 Mar. 25, 1968	Sub, E	D, S	Gun perforated from 257 to 268 ft. Pump set at 233 ft. Cemented. Texas Water Development Board observation well. 1/ 4/
910	Texas Highway Department	do.	1966	348	6	348	do.	687	190	Aug. 4, 1966	Sub, E 5	P	Slotted from 188 to 348 ft. Pumping level 190 ft at 30 gpm on Apr. 4, 1966. Pump set at 300 ft. Gravel packed. Cemented from 188 ft to surface.
56-401	Presbyterian Children's Home	J. L. Myers Sons	1947	470	10 8	38 470	do.	810	322	Nov. 10, 1959	T, E 10	P	Screened from 425 to 460 ft. Pumping level 382 ft at 45 gpm on Nov. 10, 1959. Pump set at 440 ft. Gravel packed. Reworked in 1959 by H. G. Millican - pulled old casing, liner; and deepened. 1/
* 402	do.	do.	1958	488	16 10 8	16 432 488	do.	815	--	--	T, E 10	P	Screened. Pump set at 420 ft. Reported yield 22 gpm. Cemented from 16 ft to surface. Temp.75°F. Well drilled to 547 ft and plugged back to 488 ft. 1/ 2/
902	A. G. Bailey	C. M. Stoner Drilling Co.	1964	648	4	648	Kwb	765	480 384.93	Sept. 16, 1964	Sub, E 2	S	Completed from 610 to 618 ft. Pump set at 580 ft. Cemented from 648 ft to surface. Texas Water Development Board observation well. 1/ 4/
61-603	U.S. Army Corp of Engineers	Ward and Ward Drilling Co.	1960	228	--	218	Kp	567	56	Mar. 30, 1960	Sub, E	P	Completed from 208 to 218 ft. Pumping level 92 ft at 320 gpm on Mar. 30, 1960. Pump set at 168 ft. Cemented from 208 ft to surface. Well drilled to 380 ft and plugged back to 228 ft. 1/
* 201	Brazos Elec Co.	C. M. Stoner Drilling Co.	1964	1,002	7	1,002	Kha	675	165 172.10	Apr. 22, 1964 Mar. 7, 1969	Sub, E 15	Ind	Slotted from 940 to 1,002 ft. Pump set at 370 ft. Reported yield 136 gpm. Cemented from 940 ft to surface. Temp. 82°F. Texas Water Development Board observation well. 1/ 2/ 4/
* 901	U.S. Army Corp of Engineers	Watts Drilling Co.	1963	780	4	780	Kha	542	+	Mar. 25, 1963	Sub, E 3/4	P	Completed from 735 to 780 ft. Cemented from 745 ft to surface. Well drilled to 915 ft and plugged back to 780 ft. 1/
902	G. V. Faden	C. M. Stoner Drilling Co.	1963	1,132	7	1,132	Kha	600	75	May 6, 1963	Sub, E	P	Slotted from 1,070 to 1,132 ft. Cemented from 1,070 ft to surface. 1/
62-301	Rex Gamble	do.	--	1,053	4	--	Kha	725	210	1964	Sub, E	S	Slotted. Cemented. 1/
* 302	Ed Alfaa	do.	1964	1,213	7	535 1,213	do.	660	175 171.10	Jan. 16, 1964 Mar. 4, 1969	Sub, E 1	S	Slotted from 1,154 to 1,213 ft. Pump set at 254 ft. Reported yield 10 gpm. Cemented from 1,154 ft to surface. Temp.74°F. Texas Water Development Board observation well. 1/ 4/
* 401	T. E. Harris	do.	1960	1,020	4	1,020	do.	665	125 171.30	June 22, 1960 Mar. 6, 1969	Sub, E 1	D, S	Slotted from 970 to 1,020 ft. Pump set at 210 ft. Reported yield 60 gpm. Cemented. Temp.76°F. Texas Water Development Board observation well. 1/ 4/
501	Griffin Rogers	--	--	60	60	--	Kwb	721	3 6.50	July 13, 1960 Mar. 4, 1969	H	H	Dug well with brick wall. Texas Water Development Board observation well. 4/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
LM-32-62-701	Lonnie Allen	C. M. Stoner Drilling Co.	1964	1,007	4	1,007	Khc	635	125.10 142.75	Mar. 9, 1966 Mar. 7, 1969	Sub, E 1	D	Perforated from 977 to 994 ft. Pump set at 212 ft. Reported yield 10 gpm. Cemented from 999 ft to surface. Texas Water Development Board observation well. 1/ 4/
702	Lake Whitney Enterprises	Ralph Bayless	1960	1,000	4	1,000	do.	580	100	1968	Sub, E 5	F	Reported yield 50 gpm. Cemented from 1,000 ft to surface.
901	W. T. Allison	--	--	40	--	--	Kwb	645	14 13.14	July 14, 1960 Mar. 18, 1968	N	U, S	Dug well with brick and rock wall. Texas Water Development Board observation well. 4/
62-101	L. L. Pullilove	C. M. Stoner Drilling Co.	1964	160	4	160	Kwb	722	100 108.10	Sept. 8, 1964 Nov. 26, 1968	Sub, E 1/2	S	Slotted from 110 to 160 ft. Pump set at 125 ft. Cemented from 110 ft to surface. 1/
301	C. M. Myers	do.	--	210	4	210	do.	645	135 120.90	Jan. 25, 1962 Mar. 3, 1969	Sub, E 1/2	U	Completed from 131 to 135 and 180 to 210 ft. Pump set at 168 ft. Cemented. Texas Water Development Board observation well. 1/ 4/
401	Joe Esmond	do.	--	650	4	--	Kp	610	--	--	D, E 1/2	D, S	--
403	do.	Fort Worth Drilling Co.	1965	667	7 4	95 653	do.	610	230 230.50	Nov. 15, 1965 Oct. 7, 1968	Sub, E 2	U	Slotted from 632 to 561 ft. Pumping level 240 ft at 17.5 gpm on Nov. 15, 1965. Pump set at 378 ft. Reported yield 17 gpm. Texas Water Development Board observation well. 1/ 4/
601	Joe B. Harris	C. M. Stoner Drilling Co.	1964	240	4	240	Kwb	642	116.95 117.80	Jan. 4, 1966 Nov. 29, 1968	Sub, E 3/4	D, S	Completed from 215 to 225 and 227 to 237 ft. Pump set at 195 ft. Cemented from 240 ft to surface. 1/
702	Moore Estate	J. L. Myers Sons	--	1,273	--	--	Khc	660	--	--	--	N	3/
801	City of Hillsboro	Layne Texas Co.	1947	1,899	12 8 6 4	706 1,460 1,695 1,899	Kwb, Kp, Ktp	625	250 102	Jan. 23, 1947 June 30, 1947	T, E 75	P	Completed from 150 to 170, 798 to 828, and 1,493 to 1,693 ft. Pump set at 690 ft. Reported yield 315 gpm. Cemented. Temp.93°F. 1/ 2/
* 901	do.	--	1912	200	8	--	Kwb	585	90	1942	C, E 15	P	Pump set at 190 ft. Reported yield 30 gpm. Temp.69°F.
* 902	do.	Layne Texas Co.	1941	842	8 6	779 842	Kp	580	150 150	Sept.13, 1941 1949	T, E 15	P	Completed from 785 to 842 ft. Pump set at 500 ft. Reported yield 68 gpm. Cemented. 1/
* 908	do.	--	1939	1,810	6	--	Khc	610	125	1941	T, E 20	P	Pump set at 550 ft. Reported yield 60 gpm. Temp.99°F.
* 909	do.	Layne Texas Co.	1930	1,784	12 8	473 1,674	Kwb, Kp, Khc	560	67 125	Nov. 14, 1930 1969	T, E 75	P	Completed from 117 to 177, 780 to 843, and 1,610 to 1,674 ft. Pump set at 650 ft. Reported yield 349 gpm. Temp.89°F. 1/
* 910	do.	do.	1941	845	8 6	778 845	Kp	580	135 428.7	Nov. 5, 1941 Mar. 10, 1969	Sub, E 45	P	Completed from 787 to 845 ft. Pump set at 470 ft. Reported yield 53 gpm. Cemented. Temp.86°F. Texas Water Development Board observation well. 1/ 4/
911	Hillsboro Cotton Mill	Dan Morgan	1924	250	5 3	--	Kwb	605	--	--	J, E 15	Ind	Pump set at 220 ft.
912	Hillsboro Cotton Mill	Hugh Stinson	1949	237	6	--	Kwb	610	115 114.00	June 27, 1960 Mar. 10, 1969	J, E 15	Ind	Pump set at 220 ft. Texas Water Development Board observation well. 4/
913	City of Hillsboro	Texas Water Wells	1961	1,780	7 4	1,000 1,780	Ktp	590	--	--	Sub, E 40	P	Pump set at 700 ft. Reported yield 350 gpm. Cemented. 2/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	IN-32-64-101	Edwin Clay	G. M. Stoner Drilling Co.	1962	273	4	273	Kwb	712	200 212.72 212.73 210.39	Feb. 6, 1962 Dec. 16, 1965 Apr. 15, 1966 Apr. 18, 1966	Sub, E 3/4	D, S	Slotted. Pump set at 249 ft. Reported yield 13.5 gpm. Cemented from 187 ft. to surface. 1/
	102	Boyd "Buck" Bailey	do.	1965	353	7	353	do.	722	221.90 211.2	Dec. 15, 1965 Oct. 27, 1966	Sub, E 15	D, S	Completed from 178 to 293 ft. Pump set at 296 ft. Gravel packed. 1/
	103	James and McKinney Construction Co.	do.	1965	339	7	339	do.	698	200 122.0	Feb. 5, 1965 Dec. 15, 1965	Sub, E 15	N	Completed from 225 to 350 ft. Pump set at 300 ft. Gravel packed. 1/
	201	C. R. Bartlett	do.	1965	520	4	520	do.	765	340 277.67	Apr. 15, 1965 Dec. 20, 1965	C, E 1	S	Completed from 348 to 358, 408 to 418, and 503 to 508 ft. Cemented from 520 ft to surface. 1/
	301	D. O. Clinkscales	do.	1963	676	7	676	do.	790	435 475.81	June 14, 1963 Mar. 25, 1968	Sub, E 20	D, S	Completed from 630 to 676 ft. Pump set at 630 ft. Reported yield 60 gpm. Texas Water Development Board observation well. 1/ 4/
*	302	Meuhoff Brothers	J. F. Day	1962	727	--	--	do.	--	420 420	Apr. 1964 June 5, 1965	Sub, E 20	D, Ind	Perforated. Pump set at 500 ft. Reported yield 100 gpm. Gravel packed.
	303	do.	do.	1963	720	--	--	do.	--	--	--	Sub, E 25	S, Ind	Do.
	304	do.	do.	1963	750	11	750	do.	--	--	--	Sub, E 25	S, Ind	Reported yield 100 gpm. Gravel packed.
	305	do.	do.	1964	750	11	750	do.	--	--	--	Sub, E 25	S, Ind	Do.
	306	do.	do.	1964	750	11	750	do.	--	--	--	Sub, E 25	S, Ind	Do.
	501	D. R. Price	Wilson Plumbing Co.	1950	430	--	--	do.	715	--	--	Sub, E	D, S	Reported yield 60 gpm.
*	701	City of Hillsboro	Texas Water Wells	1961	2,000	10 6	1,748 2,000	Kwb, Ep, Kgr, Krp	680	250	Sept. 1961	Sub, E 100	P	Slotted from 293 to 314, 384 to 397, 1,017 to 1,038, 1 079 to 1,084, 1,093 to 1,097, 1,104 to 1,114, 1.127 to 1,136, 1,139 to 1,148 ft and screened from 1,753 to 1,762, 1.774 to 1,793, 1,808 to 1,854, 1 876 to 1,940, and 1,968 to 1,974 ft. Pump set at 960 ft. Reported yield 317 gpm. Cemented from 30 ft to surface and from 1,180 to 1,748 ft. Underreamed and gravel packed. 1/ 3/
*	702	Certain-Lead Production Corp.	Layne Texas Co.	1962	1,876	13 9 7	1,207 1,510 1,876	Xtp	823	232 390.6	Dec. 11, 1962 Mar. 10, 1969	Sub, E 75	Ind	Completed from 1,515 to 1,554 and 1,619 to 1,830 ft. Pumping level 695 ft at 197 gpm on Dec. 12, 1962. Pump set at 870 ft. Cemented from 1,876 ft to surface. Temp. 95°F. Texas Water Development Board observation well. 1/ 2/ 4/
*	801	Lacy Feed Co.	C. M. Stoner Drilling Co.	1963	595	4	595	Kwb	795	390 199.06	July 2, 1963 Nov. 22, 1968	Sub, E 1-1/2	D, S	Completed from 520 to 521, 538 to 547, and 562 to 575 ft. Pump set at 504 ft. Cemented from 595 ft to surface. Temp. 79°F. 1/
	33-57-601	Kirby White	Ralph Hayless	1949	912	4	--	do.	618	180 160	July 7, 1960 Jan. 7, 1965	Sub, E 1-1/2	P	Pump set at 360 ft.
*	802	Brandon-Irene Water Supply Corp.	J. L. Myers Sons	1966	2,652	12 8 7	76 1,035 2,652	Xhb	622	181 230.60	May 26, 1968 Mar. 6, 1969	Sub, E	P	Gun perforated with 53 shots 2,472 to 2,498 ft, 53 shots 2,504 to 2,530 ft, 28 shots 2,534 to 2,548 ft, 17 shots 2,572 to 2,581 ft, and 21 shots 2,588 to 2,598 ft. Cemented from 2,652 ft to surface. Texas Water Development Board observation well. 1/ 2/ 4/

See footnotes at end of table.

HILL COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING DIAM-ETER (in.)	CASING DEPTH (ft)	WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	WATER LEVEL DATE OF MEASUREMENT	METHOD OF LIFT	USE OF WATER	REMARKS
* LM-33-57-601	City of Mertens	Layne Texas Co.	1930	832	8 6	785 832	Kwb	532	60 334.0	Aug. 12, 1930 Mar. 3, 1969	T, E 15	P	Perforated from 792 to 832 ft. Pumping Level 154 ft at 171 gpm on Aug. 12, 1930. Temp. 80°F. Texas Water Development Board observation well. 1/ 4/
* LM-39-01-102	Adron Tekell	C. M. Stoner Drilling Co.	1964	870	4	870	Kwb	648	410 311.80	Jan. 2, 1964 Nov. 29, 1968	Sub, E 1-1/2	S	Gun perforated from 697 to 701, 760 to 761, 803 to 805, and 809 to 812 ft. Pump set at 506 ft. Cemented from 870 ft to surface. Temp. 67°F. 1/
* 601	City of Malone	R. U. Bearing and Son	1924	2,471	6 4	2,384 --	Khe, Kpe	482	100	May 25, 1960	N	N	Open hole completion from 2,384 to 2,471 ft. Well reported flowed in 1944. Well sealed and abandoned.
* 602	Malone Water Supply Corp.	J. L. Myers Sons	1963	2,988	12 8 7	59 826 2,980	Khe	482	+ 29.30	Sept.30, 1964 Mar. 3, 1969	T, E 10	P	Perforated from 2,843 to 2,946 ft. Pumping Level 41 ft at 200 gpm in May 1963. Cemented from 2,980 ft to surface. Texas Water Development Board observation well. 1/ 4/
* 02-101	City of Irene	--	1910	915	5	--	Kwb	515	229	May 25, 1960	Sub, E 1-1/2	P	Pump set at 315 ft. Reported yield 50 gpm.
* 09-201	City of Penelope	J. L. Myers Sons	1959	3,138	12 8 5	48 934 3,138	Kho	570	18 117.60	May 24, 1960 Mar. 3, 1969	T, E 7-1/2	P	Completed from 2,908 to 3,057 ft. Pump set at 720 ft. Reported yield 60 gpm. Cemented from 48 ft to surface. Texas Water Development Board observation well. 1/ 2/ 4/
* 402	Birome Water Supply Corp.	West-Tex Tool Service	1965	3,250	12	60 3,250	Kho	542	133.0	Mar. 2, 1966	Sub, E	P	Perforated from 3,064 to 3,096, 3,104 to 3,150 3,160 to 3.181, 3,192 to 3,202, and 3,214 to 3,242 ft. Cemented. 2/
* 901	City of Mt. Calm	do.	1964	3,458	12 8 7	40 910 3,458	do.	610	123.30 160.00	Dec. 9, 1964 Mar. 6, 1969	T, E	P	Slotted from 3,120 to 3,300 ft. Pumping Level 167 ft at 140 gpm on Dec. 11, 1964. Reported yield 150 gpm. Temp. 137°F. Texas Water Development Board observation well. 1/ 2/ 4/
* 10-201	City of Hubbard	J. L. Myers Sons	1955	3,555	16 10 7 5	50 990 3,492 3,555	do.	627	200 152.90	June 28, 1960 Apr. 13, 1967	T, E 50	P	Perforated from 3,492 to 3,555 ft. Pumping level 343 ft at 229 gpm on Jan, 1965. Pump set at 400 ft. Cemented. Temp. 134°F. Texas Water Development Board observation well. 1/ 2/ 3/ 4/
* 202	do.	do.	1955	3,447	--	--	do.	627	200 175.90	June 28, 1960 Mar. 6, 1969	N	N	Texas Water Development Board observation well. 2/ 4/
40-05-302	Beechview Acres	C. M. Stoner Drilling Co.	1956	780	7	00	Khe	580	84 93.15	Aug. 1964 Mar. 10, 1966	Sub, E 3	P	Pump set at 320 ft.
* 303	Lake Whitney Enterprises	do.	1955	1,200	7 4	500 1,200	Kho	600	75 90	1955 1968	Sub, E 20	P	Slotted from 1,106 to 1,200 ft. Pump set at 380 ft. Reported yield 200 gpm. Cemented from 1,100 ft to surface. 1/
601	U.S. Army Corp of Engineers	Ward and Ward Drilling Co.	1960	867	--	867	Khe	565		May 17, 1960	Sub, E	O	Screened from 857 to 867 ft. Pumping level 45 ft at 305 gpm on May 17, 1960. Pump set at 189 ft. Cemented from 857 ft to surface. 1/
* 06-101	Lake Whitney Recreation Club	J. L. Myers Sons	1967	1,278	8	1,278	Kho	628	390	Mar. 1968	T, E 40	P (rr	Gun perforated with 57 shots 1,128 to 1,156, 36 shots 1,164 to 1,182 ft, 28 shots 1,190 to 1,204 ft, 16 shots 1,211 to 1,219 ft, and 32 shots 1 231 to 1,247 ft. Pumping level 459 ft at 300 gpm on Mar. 16. 1968. Pump set at 300 ft. Cemented from 1,278 ft to surface. 1/ 2/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	40-06-102	Lake Whitney Enterprises	J. L. Myers Sons	1966	1,260	7	1,260	Kho	620	90	1966	T, E 10	P	Screened from 1,200 to 1,260 ft. Pump set at 320 ft. Reported yield 125 gpm. Cemented from 1,200 ft to surface.
	103	U.S. Army Corps of Engineers	C. M. Stoner Drilling Co.	1957	1,134	5	1,134	do.	565	+ 5 20	1957 1958 1963	Sub, E 1	P	Completed from 1,120 to 1,130 ft. Cemented from 1,120 ft. to surface. 1/
	104	Lake Whitney Enterprises	J. L. Myers Sons	1958	1,166	10 7 5	2 524 1,166	Kho	580	30 104.49	July 8, 1958 Mar. 6, 1969	Sub, E 20	P	Perforated from 1,098 to 1,166 ft. Pump set at 400 ft. Reported yield 200 gpm. Cemented from 1,098 ft to surface. Temp. 82°F. Texas Water Development Board observation well. 1/
*	401	Texas Parks and Wildlife Department	--	--	1,800	4	--	Kfp	565	9	June 23, 1960	Sub, E 1/2	P	--
*	402	U.S. Army Corp of Engineers	Watts Drilling Co.	1963	1,105	4	1,065	Kho	545	--	--	Sub, E 3/4	P	Cemented from 1,065 ft to surface. 1/ 2/
*	501	City of Whitney	Layne Texas Co.	1942	1,283	8 6	1,129 1,283	do.	576	+ 120.00	Jan. 5, 1942 Mar. 8, 1966	T, E 40	P	Completed from 1,129 to 1,282 ft. Pumping level 258 ft at 297 gpm on May 15, 1961. Pump set at 350 ft. Reported yield 335 gpm. Cemented. Temp. 81°F. Texas Water Development Board observation well. 1/ 3/ 4/
	502	do.	--	1925	1,280	6	--	Kho	580	0 50	Mar. 22, 1949 June 16, 1960	J, E 15	P	Pump set at 150 ft. Reported yield 75 gpm.
	503	do.	--	1900	1,575	6	--	do.	578	+ 58.46	1940 May 15, 1965	A, E	N	Well was reported to have flowed 140 gpm when drilled and 40 gpm in 1940.
*	504	Hill County Water Supply Corp.	J. L. Myers Sons	1965	1,470	10 7 3	40 1,326 1,470	Kho	660	170	Jan. 1966	Sub, E 25	P	Screened from 1,326 to 1,336 and 1,346 to 1,409 ft. Pumping level 372 ft at 350 gpm in Jan. 1966. Pump set at 510 ft. Underreamed and gravel packed. Cemented from 1,326 ft to surface. 1/ 2/
*	801	Lake Whitney Enterprises	do.	1949	1,275	6 5 4	477 406 1,275	do.	585	58.67 145.7	Mar. 8, 1966 Mar. 6, 1969	Sub, E	P	Well deepened from 1,014 to 1,275 ft. Perforated from 1,184 to 1,275 ft. Texas Water Development Board observation well. 1/ 3/ 4/
*	07-201	City of Hillsboro	Layne Texas Co.	1952	1,684	14 8 6	796 1,394 1,684	Kp, Kgr Kfp	627	225	Dec. 5, 1952	T, E 75	P	Gun perforated with 30 shots from 720 to 820 ft and slotted from 1,424 to 1,675 ft. Reported yield 380 gpm. 1/ 2/
*	501	E. A. Davis	--Alexander	1958	185	8 5	-- --	Kwb	625	117 76.00	July 12, 1960 Dec. 2, 1968	A, E 3/4	D, S	Temp. 60°F.
*	802	Cox and Mellroy	do.	1953	796	7 5	200 796	Kp	620	50 213.50	July 12, 1960 Mar. 4, 1969	C, E	D, S	Slotted. Temp. 72°F. Texas Water Development Board observation well. 1/
*	08-101	Robert Davis	C. M. Stoner Drilling Co.	1967	480	4	480	Kwb	752	100.90	Nov. 22, 1968	Sub, E 1-1/2	D, S	Gun perforated with 5 shots 388 to 392 ft and 4 shots 426 to 430 ft. Pump set at 417 ft. Reported yield 8 gpm. Cemented from 480 ft to surface. Temp. 78°F. 1/ 2/
*	202	Mrs. B. H. Cheatham	do.	1961	609	4	546	do.	795	320	Feb. 7, 1963	Sub, E 1-1/2	S	Completed from 439 to 459 and 522 to 546 ft. Pump set at 527 ft. Gravel packed. Cemented from 522 ft to surface. 1/
*	301	Jack Lankford	--	1955	726	4	726	Kwb	653	250	1959	Sub, E 2-1/2	P	Pump set at 400 ft.

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING DIAMETER (in.)	CASING DEPTH (ft)	WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	WATER LEVEL DATE OF MEASUREMENT	METHOD OF LIFT	USE OF WATER	REMARKS
* LM-40-08-501	Chatt Water Supply Corp.	J. L. Myers Sons	1968	2,070	10 7	20 2,070	Kho	690	295.1	July 31, 1968	Sub, E 25	P	Gun perforated with 20 shots 1,940 to 1,950 ft. and 130 shots 1,972 to 2,036 ft. Pumping level 567 ft at 102 gpm in July 1968. Pump set at 702 ft. Cemented from 2,070 ft to surface. 1/ 2/
* 801	City of Abbott	do.	1953	2,103	12 8 5	16 800 2,083	do.	712	90 240	June 28, 1960 Oct. 1, 1964	T, E 20	P	Completed from 1,955 to 2,083 ft. Pump set at 500 ft. Reported yield 120 gpm. Cemented from 16 ft to surface. 1/ 2/
901	E. E. Stafford	Hugh Stinson	--	609	5	--	Kwb	635	178 127.34	June 28, 1960 Mar. 7, 1966	N	N	Abandoned.
14-101	U.S. Army Corp of Engineers	J. L. Myers Sons	1948	1,077	10 6	290 1,077	Kha	487	+	June 28, 1960	N	N	Slotted.
* 102	do.	do.	1947	1,145	12 8 7	-- -- --	do.	548	+ 38.55	Mar. 22, 1949 Mar. 6, 1969	Sub, E 10	P	Completed from 1,034 to 1,132 ft. Pump set at 70 ft. Reported yield 160 gpm. Temp. 82°F. Texas Water Development Board observation well. 1/ 2/ 4/
201	Prairie Valley Presbyterian Church	do.	1960	1,225	8 5	10 1,225	do.	565	83.77 93.94	Mar. 8, 1968 Mar. 4, 1969	Sub, E	D, P	Completed from 1,182 to 1,225 ft. Pumping level 177 ft at 30 gpm on Jan. 5, 1961. Cemented. Texas Water Development Board observation well. 1/ 4/
601	Baptist Encampment	Harvey Meadows and Son Well Driller	1950	1,102	8 5	600 --	Kha	530	+	Feb. 4, 1960	T, E 5	P	Pump set at 100 ft. 1/
602	do.	do.	1957	1,202	7 5	660 --	do.	535	+ 63.45	May 17, 1960 Mar. 4, 1969	T, E	P	Texas Water Development Board observation well. 1/ 4/
* 15-101	A. D. Urbanovsky	C. M. Stoner Drilling Co.	1956	1,497	4 3	1,221 1,497	Kfp	535	30	1960	T, E 7-1/2	N	Pump set at 210 ft. Reported yield 60 gpm. Cemented. Temp. 93°F. 1/
* 102	Aquilla Water Supply Corp.	J. L. Myers Sons	1960	1,485	12 8 5	7 516 1,485	Kho	520	62 100.76	Jan. 1960 Mar. 18, 1968	T, E 5	P	Perforated from 1,380 to 1,480 ft. Pumping level 78 ft at 72 gpm on May 17, 1960. Pump set at 160 ft. Cemented from 1,485 ft to surface. Texas Water Development Board observation well. 1/ 2/ 4/
* 201	Meadow Water Supply Corp.	C. M. Stoner Drilling Co.	1965	1,700	7 5	1,000 1,700	do.	604	179 200.60	Nov. 19, 1963 Mar. 4, 1969	Sub, E 10	P	Completed from 1,630 to 1,644, 1,652 to 1,656 and 1,664 to 1,676 ft. Pump set at 350 ft. Cemented. Texas Water Development Board observation well. 1/ 2/ 4/

* For chemical analysis of water, see Table 5.
1/ For drillers' log of wells, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I.
4/ For water-level measurements, see Table 4.

HILL COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
LW-32-47-902	Humble Oil and Refining Co.	Ella Freeman No. 1	1959	11,808	636	E
54-502	Joe A. Humphrey	J. E. Osborne No. 1	1953	8,270	761	E
55-303	Hunt Oil Co.	E. W. Wright No. 1	1948	6,681	615	E
63-701	C. Stubblefield, et al.	Summer No. 1	1951	2,500	600	E
33-57-701	Phillips Petroleum Co.	Posey No. A-1	1956	6,616	594	E
39-02-201	George Rahal	Lewis Martin No. 1	1957	3,277	515	E
701	Glen McCarthy	McDaniel No. 1	1959	2,003	453	E
801	C. A. Lee	Hight No. A-1	1954	1,318	613	E
09-401	Camtex Oil Corp.	Cartright No. 1	1952	1,197	540	E
10-101	A. O. Phillips and American Liberty Oil Co.	Vosburg No. 1	1952	1,190	535	E
401	Joseph Thompson	Easter Doherty No. 2	1950	1,405	615	E
402	W. B. Flanagan, et al.	Johnson No. 1	1950	1,202	593	E
601	Shell Development Co. and Penrod	E. W. Barrett No. 1	1967	4,267	575	E
701	Joe Thompson	Jack Carr No. 1	1947	1,339	627	E
702	M. L. Richards and David E. Lee	H. D. Walker No. 1	1952	1,604	584	E
703	McKenzie Brothers Oil and Gas Co.	T. M. Morris No. 1	1958	1,257	615	E
704	Davidson and Fitzpatrick	Grant No. 1	1956	1,439	610	E
40-06-802	Brandon Oil Co.	Shannon No. 1	1958	1,204	573	E
15-501	A. P. Merritt	H. Norris No. 1	1947	3,129	530	E
601	Robert M. Bass	John Gerek No. 1	1946	1,019	510	E

Table 3.—Drillers' Logs of Selected Wells

Well LW-32-53-701

Owner: U.S. Army Corps of Engineers
Driller: Unknown

	THICKNESS (FEET)	DEPTH (FEET)
Red, sandy clay	18	18
Sand and small gravel	20	38
Rock	31	69
Shale and rock streaks	18	87
Shale and sand streaks	16	103
Sand	65	168
Gray sand, shale	4	172
Sand	3	175
Gray shale	8	183
Rock	202	385
Shaly lime	20	405
Rock	71	476
Rock and shale streaks	44	520
Soft sand rock	6	526
Rock and shale streaks	44	570
Shale and sand streaks	15	585
Sand	12	597
Shale	5	602
Sand and shale streaks	19	621
Sand	4	625
Red shale	12	637
Rock and sand	5	642
Red shale	64	706
Sandy shale	15	721
Rock	2	723
Red and gray shale	27	750
Sandy shale	10	760
Sand	5	765
Red, sandy shale	3	768
Sand and sandy shale	9	777
Sand	9	786
Red, sandy shale	5	791
Hard sand and sandy shale streaks	6	797
Hard sand	33	830
Hard sand and rock streak	5	835

Well LW-32-53-902

Owner: Blum Water Supply Corp.
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Surface soil	1	1
Lime	37	38
Broken lime	182	220
Lime and shale	111	331
Shale	11	342
Sand	43	385
Lime and shale	38	423
Lime	25	448
Broken lime	26	474
Lime and shale	142	616
Broken lime	156	772
Shale	9	781
Lime and shale	56	837
Shale	8	845
Sand	73	918
Sand and shale	6	924
Shale	10	934

Well LW-32-54-702

Owner: Jack Taylor
Driller: C. M. Stoner Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Soil	3	3
Rock	27	30
Blue shale	15	45
White rock	370	415
Sandy shale	37	452
Sand	60	512
Glen Rose lime	438	950
Shale	60	1,010
Sand	27	1,037
Shale	1	1,038

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-54-702—Continued		
Sand	4	1,042
Shale	5	1,047
Sand	3	1,050
Broken sand	13	1,063
Well LW-32-55-304		
Owner: Sam Gard Driller: C. M. Stoner Drilling Co.		
Soil	2	2
Yellow clay	8	10
Brown shale	60	70
Sand	20	90
Sandy shale	30	120
Sand	15	135
Sandy shale	10	145
Broken sand and sandy shale	50	195
Sandy shale	25	220
Sand	20	240
Shale and sand rock	20	260
White rock	13	273
Well LW-32-55-601		
Owner: — Morris Driller: C. M. Stoner Drilling Co.		
Soil	3	3
Yellow clay	15	18
Brown shale	92	110
Sand	23	133
Shale	17	150
Hard sand	17	167
Shale	30	197
Sand	13	210
Shale	11	221
Sand	73	294
Sand and lime	11	305
Well LW-32-55-602		
Owner: Texas Highway Department Driller: C. M. Stoner Drilling Co.		
Soil	1	1
Clay	19	20
Blue shale	10	30
Brown shale	135	165
Sand	25	190
Broken, sandy shale and sand	62	252
Sand	20	272
Sandy shale	8	280
Sand	15	295
Sandy shale and sand	35	330
Lime rock	10	340
Well LW-32-55-902		
Owner: City of Itasca Driller: Layne Texas Co.		
Surface soil	4	4
Yellow clay	22	26
Black shale	110	136
Sand rock	1	137
Black shale	48	185
Rock	3	188
Sandy shale	10	198
Brown shale	48	246
Sand	8	254
Sand and sandy shale	37	291
Hard shale and lime	134	425
Lime	202	627
Lime and layers of hard shale	29	656
Lime	174	830
Lime and layers of shale	15	845
Sand	7	852
Sandy shale	40	892
Shale and layers of lime	46	938
Lime	16	954
Shale and layers of sand	25	979
Lime and layers of shale	57	1,036
Shale	81	1,117

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-55-902—Continued		
Limestone	115	1,232
Lime	2	1,234
Lime and layers of shale	88	1,322
Lime	35	1,357
Sandy shale	28	1,385
Shale	5	1,390
Hard shale and layers of anhydrite	36	1,426
Hard shale	20	1,446
Sandy shale	30	1,476
Sand	40	1,516
Layers of sand and shale	8	1,524
Blue shale	9	1,533
Sand	13	1,546
Hard, blue and gray shale	8	1,554
Sand	20	1,574
Hard shale	11	1,585
Sand	20	1,605
Hard, blue shale	21	1,626
Sand	18	1,644
Hard, blue shale	22	1,666
Red shale	13	1,679
Hard, red and blue shale	17	1,696
Hard, blue and brown shale	25	1,721
Sand	13	1,734
Layers of sand and shale	20	1,754
Sand	25	1,779
Shale	6	1,785
Sand	9	1,794
Sand and layers of hard shale (cored)	15	1,809
Hard sandy shale	5	1,814
Hard, blue, red, and brown shale	17	1,831
No record	4	1,835

	THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-55-904		
Owner: City of Itasca Driller: Texas Water Wells		
Rotary to ground level	6	6
Topsoil	4	10
Yellow clay	30	40
Hard shale streaked with rock	156	196
Sand with streaks of shale	51	247
Shale, lime, and sand streaks	65	312
Shale and lime	27	339
Lime - hard	5	344
Shale and lime rock	82	426
Lime and streaks of shale	208	634
Hard shale and lime	36	670
Hard lime streaked with shale	117	787
Hard shale	16	803
Hard shale and lime	21	824
Lime streaked with shale	39	863
Shale	25	888
Hard sand streaked with shale (Paluxy)	84	972
Lime	72	1,044
Shale streaked with lime	66	1,110
Lime streaked with shale	380	1,490
Sand streaked with shale	128	1,618
Shale and lime hard and red bed	52	1,670
Hard sand	20	1,690
Shale	14	1,704
Hard sand streaked with shale	114	1,818
Sand and layers of shale	38	1,856

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

Well LW-32-55-905

Owner: Itasca Cotton Manufacturing Co.
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Surface soil	8	8
Yellow clay	6	14
Gravel	4	18
Yellow clay	15	33
Shale	147	180
Sand	15	195
Shale	12	207
Sand	13	220
Shale	6	226
Sand	15	241
Shale	59	300

Well LW-32-55-908

Owner: Harris Electric Co.
Driller: C. M. Stoner Drilling Co.

Soil	3	3
Yellow clay	27	30
Black shale	54	84
Brown shale	91	175
Sand	25	200
Broken, sandy shale	10	210
Good sand	24	234
Shale	13	247
Sand	6	253
Broken sand and shale	22	275
Sand	21	296
Shale	20	316

Well LW-32-55-909

Owner: Ernest Whitfield
Driller: C. M. Stoner Drilling Co.

Soil	3	3
Yellow clay	27	30
Brown shale	100	130
Sand	59	189
Broken sand and rock	6	195
Sandy shale	18	213

Well LW-32-55-909—Continued

Fine sand	4	217
Shale	15	232
Sand	37	269
Shale and white rock	20	289

Well LW-32-56-401

Owner: Presbyterian Children's Home
Driller: J. L. Myers Sons

Rock and yellow clay	30	30
Shale	268	298
Shale and rock	74	372
Sand	8	380
Sandy shale	20	400
Shale	10	410
Sand	50	460
Shale	10	470

Well LW-32-56-402

Owner: Presbyterian Children's Home
Driller: J. L. Myers Sons

Soil	1	1
Chalk rock	39	40
Shale	357	397
Sandy shale	32	429
Sand	59	488
Shale	22	510
Sand	13	523
Shale and sand streaks	24	547

Well LW-32-56-902

Owner: A. G. Bailey
Driller: C. M. Stoner Drilling Co.

Chalk	85	85
Blue shale	200	285
Brown shale	135	420
Sand	10	430
Broken sand and sandy shale	30	460
Hard sand rock	3	463
Broken sand and shale	62	525

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-56-902—Continued		
Sand	25	550
Sandy shale and sand rock	60	610
Sand	20	630
Sandy shale	10	640
White rock	8	648
Well LW-32-61-103		
Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.		
Red clay	30	30
Gravel	10	40
Gray shale	120	160
Sand	20	180
Rock	13	193
Water sand	35	228
Shale	152	380
Well LW-32-61-201		
Owner: Brazos Lime Co. Driller: C. M. Stoner Drilling Co.		
Lime	300	300
Sand	57	357
Glen Rose lime	415	772
Sand	12	784
Shale	6	790
Hard sand	14	804
Red bed	13	817
Sand	5	822
Shale	12	834
Sand	20	854
Shale	1	855
Sand	13	868
Red bed	70	938
Sand	57	995
Shale	7	1,002
Well LW-32-61-901		
Owner: U.S. Army Corps of Engineers Driller: Watts Drilling Co.		
Topsoil	10	10
Lime and shale	35	45
Lime	15	60
Lime and shale	115	175
Shale	45	220
Sand and lime	20	240
Lime	360	600
Sand and lime	40	640
Shale	100	740
Sand - first Trinity	40	780
Red bed	135	915
Well LW-32-61-902		
Owner: G. V. Paden Driller: C. M. Stoner Drilling Co.		
Soil	.5	.5
Chunk rock	5.5	6
White rock	309	315
Broken shale and shale	30	345
Green shale	10	355
Sand	40	395
Lime rock	455	850
Broken sand and sandy shale	58	908
Sand	27	935
Red bed	90	1,025
Sand	25	1,050
Sandy shale	20	1,070
Sand	62	1,132
Well LW-32-62-101		
Owner: Rex Cauble Driller: C. M. Stoner Drilling Co.		
Soil	3	3
White rock	32	35
Blue shale	3	38
White rock	327	365
Shell rock	45	410
Sandy shale	15	425
Paluxy sand	90	515
Lime	350	865
Lime and shale	110	975
Sand	78	1,053

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

Well LW-32-62-302

Owner: Ed Allen
Driller: C. M. Stoner Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Soil	3	3
Yellow clay	14	17
Blue shale	111	128
White rock	392	520
Shell rock	40	560
Sandy shale	55	615
Sand	37	652
Sand	36	688
Glen Rose lime	430	1,118
Shale	30	1,148
Sand (not good)	5	1,153
Sand (good)	60	1,213

Well LW-32-62-401

Owner: T. E. Harris
Driller: C. M. Stoner Drilling Co.

White rock	435	435
Blue shale	11	446
Sandy shale	9	455
Sand, broken (top Paluxy 478 ft)	20	475
Sand	15	490
White rock	435	925
Shale and lime	21	946
Sandy lime	4	950
Green shale	8	958
Sandy shale	12	970
Sand (top Trinity 980 ft)	50	1,020

Well LW-32-62-701

Owner: Lonnie Allen
Driller: C. M. Stoner Drilling Co.

White rock	380	380
Shale rock	60	440
Sandy shale	10	450
Sand	7	457
Glen Rose lime	511	968
Sand	31	999
Sandy shale	8	1,007

Well LW-32-63-101

Owner: L. L. Fullilove
Driller: C. M. Stoner Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Soil	3	3
Yellow clay	5	8
Sand	1	9
Yellow clay	11	20
Broken sand	22	42
Shale	28	70
Sand	14	84
Sand	25	109
Sand	23	132
Sandy shale	10	142
Shale	18	160

Well LW-32-63-301

Owner: C. M. Myers
Driller: C. M. Stoner Drilling Co.

Soil	3	3
Yellow clay	7	10
Gravel	15	25
Brown shale	106	131
Sand rock	4	135
Sandy shale	45	180
Sand	30	210

Well LW-32-63-403

Owner: Joe Esmond
Driller: Fort Worth Drilling Co.

Sand	3	3
Yellow clay	17	20
Quicksand	15	35
Gray shale with sand rocks	35	70
Blue shale	52	122
White lime	68	190
Brown shale	5	195
White lime	31	226
Brown shale	41	267
White lime	55	322
Blue gray shale	19	341
White lime	149	490

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-63-403—Continued		
Gray shale	52	542
Shell rock	41	583
Sandy shale	41	624
Water sand	32	656
Sandy lime and shale	11	667
Well LW-32-63-601		
Owner: Joe B. Pharris Driller: C. M. Stoner Drilling Co.		
Soil	3	3
Yellow clay	17	20
Brown shale	74	94
Sand	9	103
Shale	17	120
Sand	23	143
Shale	3	146
Rock	2	148
Sand	10	158
Broken, sandy shale	19	177
White sand	14	191
Shale	16	207
Sand	8	215
Sandy shale	2	217
Sand	23	240
Well LW-32-63-801		
Owner: City of Hillsboro Driller: Layne Texas Co.		
Surface soil	3	3
Yellow clay	17	20
Hard, black shale	35	55
Hard sand	20	75
Blue clay	62	137
Sand	18	155
Sandy shale and clay	24	179
Sandy shale	21	200
Hard, blue shale	107	307
Lime	114	421
Lime and layers shale	112	533
Hard, white lime	77	610
Lime and layers shale	175	785
Sand	40	825
Lime	34	859
Sandy lime and shale	68	927
Soft, brown lime	350	1,277
Soft, brown shale	10	1,287
Brown lime and shale	16	1,303
Soft, brown lime	92	1,395
Sand	45	1,440
Shale	20	1,460
Hard lime	10	1,470
Red shale	25	1,495
Layers shale, sandy shale	24	1,519
Sandy shale and layers sand	56	1,575
Hard shale	11	1,586
Red shale	10	1,596
Red, sandy shale, layers sand	19	1,615
Shale and sandy shale	17	1,632
Sand	11	1,643
Red sand and shale	12	1,655
Layers sand and shale	17	1,672
Red shale and layers hard, fine sand	31	1,703
Hard sand rock	5	1,708
Hard shale	45	1,753
Red and blue shale	25	1,778
Red, blue, some yellow shale	82	1,860
Red, blue, yellow shale	39	1,899
Well LW-32-63-902		
Owner: City of Hillsboro Driller: Layne Texas Co.		
Surface	5	5
Dark shale	45	50
Sandstone	5	55
Blue clay	15	70
Water sand	5	75

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-63-902—Continued		
Blue shale	20	95
Sandy shale	25	120
Blue shale	38	158
Sandy shale	12	170
Hard sand	20	190
Blue shale	90	280
White lime	70	350
Blue shale	5	355
White lime	25	380
Blue shale	15	395
Gray lime	30	425
White lime	30	455
Gray lime	20	475
Blue shale	45	520
White lime	105	625
Blue shale	15	640
White lime	10	650
Blue shale	55	705
Sandstone	5	710
Hard, gray lime	30	740
Blue shale	39	779
Shale and sand (top sand)	4	783
Good sand (Paluxy)	50	833
Dark lime	9	842
Well LW-32-63-909		
Owner: City of Hillsboro Driller: Layne Texas Co.		
Surface soil	10	10
Yellow clay and gravel	5	15
Hard, fine sand	35	50
Hard shale	67	117
Sand	17	134
Sand rock	2	136
Sand	22	158
Hard shale	22	180
Pyrite of iron	1	181
Hard shale	102	283
Hard chalk	22	305

	THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-63-909—Continued		
Lime	36	341
Hard lime	33	374
Broken lime and shale	19	393
Lime	37	430
Broken lime and shale	42	472
Hard, lime rock	2	474
Chalk	26	500
Lime	6	506
Lime and shale	57	563
Hard shale and lime	43	606
Shale	74	680
Lime	10	690
Hard lime	16	706
Hard lime	16	722
Shale and boulders	4	726
Hard sand rock	1	727
Shale	20	747
Hard sand rock	3	750
Shale	14	764
Lime	5	769
Hard sand	9	778
Hard, white clay	11	789
Shale and sandy lime	43	832
Sandy lime	53	885
Lime	33	918
Sandy lime and shale	12	930
Lime	15	945
Shale layers and sandy lime	18	963
Hard, sandy lime	3	966
Lime and shale	8	974
Sandy lime and shale	56	1,030
Sandy lime and hard shale	35	1,065
Hard lime	5	1,070
Lime	30	1,100
Hard lime	16	1,116
Lime	24	1,140
Hard lime	20	1,160

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-63-909—Continued		
Lime and shale	31	1,191
Hard lime	24	1,215
Shale and lime	9	1,224
Sandy lime and shale	32	1,256
Lime rock	54	1,310
Hard, sandy lime	25	1,335
Sandy shale, streaks hard sand	55	1,390
Packed sand	29	1,419
Shale	5	1,424
Hard sand, streaks of shale	15	1,439
Rock	17	1,456
Red shale	14	1,470
Shale	30	1,500
Red shale	75	1,575
Blue shale	15	1,590
Hard, red shale	12	1,602
Hard shale	6	1,608
Hard, sandy lime	12	1,620
Red shale and hard, red sand	27	1,647
Red sand rock and shale	13	1,660
Sand	10	1,670
Hard gravel and sand	3	1,673
Sandy lime and gravel	3	1,676
Sand rock	4	1,680
Shale	12	1,692
Hard rock	4	1,696
Shale, hard	4	1,700
Shale	19	1,719
Hard shale	65	1,784
Well LW-32-63-910		
Owner: City of Hillsboro Driller: Layne Texas Co.		
Yellow clay	8	8
Black shale	47	55
Dark rock	10	65
Blue, sandy clay	5	70
Sand (little water)	5	75
Shale	5	80
Blue shale	30	110
Sand stone	5	115
Blue shale	35	150
Water sand (Woodbine)	35	185
Blue shale	30	215
Blue lime	60	275
White lime	115	390
Blue shale	20	410
Gray lime	75	485
Blue shale	35	520
White lime	140	660
Blue clay	20	680
Blue shale	20	700
Gray lime	5	705
Sand stone	5	710
Gray lime	35	745
Blue shale	32	777
Lime and shell	1	778
Lime	2	780
Sand (Paluxy)	50	830
Lime	15	845
Well LW-32-64-101		
Owner: Edwin Clay Driller: C. M. Stoner Drilling Co.		
Soil	2	2
Yellow clay	41	43
Blue shale	75	118
Brown shale	27	145
Sandy shale	42	187
Sand	38	225
Good sand	48	273
Well LW-32-64-102		
Owner: Boyd "Buck" Bailey Driller: C. M. Stoner Drilling Co.		
Soil	3	3
Yellow clay	37	40
Blue shale	60	100

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-64-102—Continued		
Brown shale	115	215
Sand	100	315
Shale	38	353
Well LW-32-64-103		
Owner: James and McKinney Construction Co. Driller: C. M. Stoner Drilling Co.		
Soil	3	3
Yellow clay	27	30
Blue shale	100	130
Brown shale	100	230
Broken sand	27	257
Sand	16	273
Sandy shale	15	288
Sand	32	320
Sand	11	331
Shale	4	335
Sand	4	339
Well LW-32-64-201		
Owner: C. E. Bartlett Driller: C. M. Stoner Drilling Co.		
Soil	1	1
Chalk rock	1	2
Chalk rock	13	15
Blue shale	185	200
Brown shale	145	345
Sand	20	365
Sandy shale	17	382
Sand	13	395
Sandy shale	7	402
Sand	17	419
Sandy shale	21	440
Gray shale	63	503
Sand	5	508
White rock	12	520

	THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-64-301		
Owner: D. O. Clinkscales Driller: C. M. Stoner Drilling Co.		
Soil	.5	.5
Chalk rock	179.5	180
Blue shale	220	400
Brown shale	115	515
Broken sand and sandy shale	35	550
Sand	30	580
Sandy shale	25	605
Sand	25	630
Good sand	46	676
Well LW-32-64-701		
Owner: City of Hillsboro Driller: Texas Water Wells		
Rotary to ground level	6	6
Surface	2	8
Gravel	3	11
Clay	29	40
Clay, sand	10	50
Sand	5	55
Shale	10	65
Sandy shale	5	70
Blue shale	10	80
Shale	210	290
Sandy shale	10	300
Sand	14	314
Shale	11	325
Sand	11	336
Shale, shells	39	375
Shale, lime streaks of sand	75	450
Shale lime	132	582
Lime	28	610
Shale, lime	46	656
Lime	32	688
Shale, lime shells	22	710
Sand, lime shells	30	740

Table 3.—Drillers' Logs of Selected Wells in Hill County--Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-64-701—Continued		
Shale, lime	126	866
Shale	13	879
Lime	9	888
Sand, broken	57	945
Lime	20	965
Sand, lime shells	30	995
Chalk	5	1,000
Sand	10	1,010
Chalk	5	1,015
Sand, lime shells	35	1,050
Chalk	55	1,105
Lime, shale	130	1,235
Sticky shale	10	1,245
Sandy shale, hard lime	55	1,300
Sand, lime shells	30	1,330
Lime, hard	121	1,451
Sandy lime, hard shale	89	1,540
Anhydrite	5	1,545
Lime, shale	65	1,610
Sandy shale	10	1,620
Sand	60	1,680
Sandy lime, shale	125	1,805
Sand	35	1,840
Lime, shale, red bed	15	1,855
Sand	85	1,940
Red bed, black shale	15	1,955
Shale lime	10	1,965
Red bed, streaks of lime	15	1,980
Black shale, hard lime	20	2,000
Well LW-32-64-702		
Owner: Certain-Teed Production Corp. Driller: Layne Texas Co.		
No record	—	—
Clay	—	31
Shale	26	57
Sandy shale	28	85
Black shale and sand streaks	35	120
Gray, sandy shale	26	146
Shale and hard streaks	28	174
Fine, sandy shale	16	190
Gray shale	43	233
Hard, fine, white sand	37	270
Gray shale	23	293
Lime	28	321
Gray shale and lime streaks	49	370
Hard lime and shale streaks	9	379
Gray shale and lime streaks	48	427
Hard lime and shale streaks	48	475
Hard shale and layers of lime	130	605
Hard, gray lime and shale breaks	80	685
Hard shale and hard lime streaks	65	750
Hard, gray shale	35	785
Hard, gray lime and shale breaks	21	906
Hard, gray shale and streaks of soft shale	65	971
Hard lime	87	1,058
Hard shale and lime streaks	23	1,081
Soft lime and streaks of hard lime	63	1,144
Hard shale and lime	9	1,153
Hard lime	6	1,159
Soft lime	10	1,169
Hard lime and soft streaks	57	1,226
Hard lime	149	1,375
Soft lime and white shale	22	1,397
Hard lime and streaks of shale	20	1,417
Shale	32	1,449
Soft shale and lime	18	1,467
Gray, sandy shale	21	1,488
Hard, brown shale and white lime	12	1,500

Table 3.--Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-64-702—Continued		
Hard shale and sand streaks	16	1,516
Fine, gray sand and shale breaks	46	1,562
Shale, streaks of sand, and lime	17	1,579
Lime and hard sand streaks	23	1,602
Hard lime	3	1,605
Hard lime, shale, and sand streaks	37	1,642
Hard lime and shale streaks	7	1,649
Gray shale	17	1,666
Hard, gray sand and shale streaks	25	1,691
Shale and white lime	12	1,703
Hard, gray, fine sand and shale streaks	10	1,713
Hard, gray shale, lime, and sand streaks	11	1,724
Fine, hard sand	20	1,744
Sandy lime and pink shale breaks	16	1,760
Pink shale	10	1,770
Fine, hard sand	30	1,800
Hard shale	15	1,815
Fine sand	13	1,828
Hard shale and lime streaks	48	1,876
Well LW-32-64-801		
Owner: Lacy Feed Co. Driller: C. M. Stoner Drilling Co.		
Chunk rock	4	4
Chalk	121	125
Blue shale	170	295
Brown shale	122	417
Sandy shale	3	420
Sand	35	455
Sandy shale	30	485
Gray shale	20	505
Sandy shale	7	512
Sand	3	515
Well LW-32-64-801—Continued		
Sandy shale	25	540
Sand	10	550
Sandy shale	12	562
Sand	13	575
Gray shale	2	577
Sand	6	583
Sandy shale	9	592
Sandy rock	1	593
White rock	2	595
Well LW-33-57-402		
Owner: Brandon-Irene Water Supply Corp. Driller: J. L. Myers Sons		
Surface soil	10	10
Lime	70	80
Lime and shaly sand	265	345
Shale and sandy shale	297	642
Shale with sand and lime streaks	98	740
Lime	10	750
Shale and streaks of sand	130	880
Limy shale	174	1,054
Lime and shale	458	1,512
Sandy shale	176	1,688
Lime and shaly sand	565	2,253
Shale and sand	189	2,442
Sand with shale streaks	110	2,552
Sand	59	2,611
Lime	41	2,652
Well LW-33-57-601		
Owner: City of Mertens Driller: Layne Texas Co.		
Yellow clay	23	23
Gumbo	92	115
Shale	199	314
Gumbo shale	336	650
Brown shale	118	768
Lime	4	772
Sand	5	777

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LW-33-57-601—Continued		
Lime	2	779
Shale	13	792
Sand	40	832
Well LW-39-01-102		
Owner: Adron Tekell Driller: C. M. Stoner Drilling Co.		
Soil	3	3
Austin chalk	217	220
Blue shale	300	520
Brown shale	109	629
Sand	31	660
Sandy shale with sand streaks	140	800
Sand	12	812
Broken sand and shale	58	870
Well LW-39-09-201		
Owner: City of Penelope Driller: J. L. Myers Sons		
Surface soil	48	48
Blue shale	92	140
Shale	245	385
Chalk	265	650
Shale	641	1,291
Lime	165	1,456
Lime - shale	413	1,869
Sand - shale	65	1,934
Lime - shale	164	2,098
Shale - sand	20	2,118
Shale - lime	100	2,218
Shale	7	2,225
Sand - shale	48	2,273
Lime - shale	287	2,560
Sand - shale	20	2,580
Lime - shale	140	2,720
Shale	31	2,751
Sand - shale	189	2,940
Shale	25	2,965
Sand - shale	35	3,000
Sand - gravel	50	3,050
Shale	88	3,138
Well LW-39-09-901		
Owner: City of Mt. Calm Driller: West-Tex Tool Service		
Caliche and clay	203	203
Blue shale	708	911
Shale and lime	374	1,285
Shale and lime	196	1,481
Lime and chalk	98	1,579
Lime and shale	229	1,808
Lime	53	1,861
Shale and lime	114	1,975
Lime	215	2,190
Lime and shale	70	2,260
Lime	177	2,437
Lime	81	2,518
Lime, sand, and shale	197	2,715
Sandy lime and shale	218	2,933
Sand, lime	130	3,063
Lime and sand	212	3,275
Sand and lime	46	3,321
Lime and sand	86	3,407
Sand, lime, and chert	51	3,458
Well LW-39-10-201		
Owner: City of Hubbard Driller: J. L. Myers Sons		
Sand	3	3
Clay	22	25
Sand rock	25	50
Shale	671	721
Chalk rock	304	1,025
Shale	425	1,450
Broken sand	70	1,520
Shale and sandy shale	90	1,610
Lime	345	1,955
Lime and broken lime	530	2,485

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

Well LW-39-10-201—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Sandy lime	45	2,530
Broken lime	50	2,580
Lime	175	2,755
Broken lime	159	2,914
Sandy lime	123	3,037
Lime	63	3,100
Shale	45	3,145
Broken lime	115	3,260
Sandy shale	105	3,365
Sand	85	3,450
Gumbo shale and red shale	40	3,490
Sand	20	3,510
Broken sand	45	3,555

Well LW-40-05-303

Owner: Lake Whitney Enterprises
Driller: C. M. Stoner Drilling Co.

Soil	1	1
Gravel	1	2
Caliche	2	4
White rock	355	359
Shale	25	384
Sand	26	410
White rock	417	827
Sand	10	837
White rock	23	860
Sandy shale	25	885
Sand	20	905
Pink, sandy shale	7	912
Sand	13	925
Gray, sandy shale	55	980
Red bed	73	1,053
Gray, sandy shale	21	1,074
Sand	21	1,095
Gray, sandy shale	11	1,106
Sand	31	1,137
Yellow clay	9	1,146
Sand	44	1,190
Red shale	10	1,200

Well LW-40-05-601

Owner: U.S. Army Corps of Engineers
Driller: Ward and Ward Drilling Co.

Subsoil	15	15
Lime	155	170
Shale	84	254
Lime	56	310
Paluxy sand	24	334
Lime	133	467
Shale	323	790
Sand	30	820
Lime	4	824
Sand and shale	8	832
Sand	35	867

Well LW-40-06-101

Owner: Lake Whitney Recreation Club
Driller: J. L. Myers Sons

Surface soil	4	4
Broken lime	7	11
Lime	41	52
Broken lime	270	322
Shale	45	367
Broken lime	55	422
Shale	46	468
Lime	85	553
Broken lime	352	905
Sandy lime	62	967
Sand	13	980
Broken sand	45	1,025
Broken lime	50	1,075
Lime and shale	59	1,134
Sand	22	1,156
Broken sand	52	1,208
Sand	11	1,219
Sand and shale	31	1,250
Shale	28	1,278

Table 3.--Drillers' Logs of Selected Wells in Hill County--Continued

Well LW-40-06-103

Owner: U.S. Army Corps of Engineers
Driller: C. M. Stoner Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Soil	6	6
Red gravel, clay	6	12
White rock	303	315
Sand	10	325
Shale	9	334
Sand	40	374
White lime	456	830
Green, sandy shale	10	840
Sand	25	865
Sandy shale	5	870
Sand	42	912
Green shale	12	924
Red shale	56	980
Sand	10	990
Mixed shale	77	1,067
Sand	67	1,134

Well LW-40-06-104

Owner: Lake Whitney Enterprises
Driller: J. L. Myers Sons

Lime	205	205
Lime and shale	153	358
Sand	37	395
Lime	181	576
Sandy lime	116	692
Lime	118	810
Sandy lime	58	868
Sandy shale	40	908
Sand	28	936
Shale	112	1,048
Sandy shale	48	1,096
Sand	65	1,161
Shale	5	1,166

Well LW-40-06-402

Owner: U.S. Army Corps of Engineers
Driller: Watts Drilling Co.

Subsoil	8	8
White lime	22	30

Well LW-40-06-402--Continued

Blue lime	50	80
White lime	280	360
Sand	20	380
Blue lime	155	535
Shale	115	650
Lime	113	763
Shale	120	883
Sand	17	900
Shale	55	955
Red bed	110	1,065
Sand and lime streaks	18	1,083
Sand	12	1,095
Sandy lime	10	1,105

Well LW-40-06-501

Owner: City of Whitney
Driller: Layne Texas Co.

Black soil	5	5
Gravel	15	20
Chalk	10	30
Shale and shell	50	80
Lime, gray	45	125
Shale	15	140
White lime	70	210
Shale, gray	50	260
Lime, gray	60	320
Blue gumbo	10	330
Lime, gray	5	335
Blue shale	40	375
Lime, gray	10	385
Lime rock	20	405
Lime and flint	15	420
Blue shale	30	450
Sand	36	486
White lime	14	500
Lime	135	635
Shale, blue	15	650
Lime, white	105	755
Lime	55	810

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LW-40-06-501—Continued		
Blue shale	25	835
Lime	25	860
Sandy lime	35	895
Sandy shale	70	965
Sand	15	980
Shell, hard	7	987
Sand	3	990
Lime, sandy	8	998
Sand	15	1,013
Shale	4	1,017
Red rock	3	1,020
Shale	10	1,030
Sandy lime	10	1,040
Lime	40	1,080
Lime, hard	14	1,094
Shale	22	1,116
Red shale	7	1,123
Sandy lime	5	1,128
Sand	142	1,270
Sand, red	5	1,275
Red, sandy lime	5	1,280
Lime	3	1,283
Well LW-40-06-504		
Owner: Hill County Water Supply Corp. Driller: J. L. Myers Sons		
Clay and sand	38	38
Shale	49	87
Lime with streaks of shale	493	580
Sand	10	590
Sandy shale	27	617
Lime	33	650
Lime and shale	102	752
Lime and shale with streaks of sand	120	872
Lime and shale	229	1,101
Broken sand and shale	189	1,290
Shale	16	1,306
Sand	4	1,310
Well LW-40-06-504—Continued		
Shale	6	1,316
Sand	8	1,324
Shale	4	1,328
Broken sand with streaks of shale	7	1,335
Sand	45	1,380
Broken sand and shale	40	1,420
Shale with streaks of sand	50	1,470
Well LW-40-06-801		
Owner: Lake Whitney Enterprises Driller: J. L. Myers Sons		
No record	1,014	1,014
Lime	55	1,069
Lime and shale	58	1,127
Hard sand	8	1,135
Lime	48	1,183
Sand	7	1,190
Broken lime, shale, and sand	70	1,260
Sand	10	1,270
Hard sand	5	1,275
Well LW-40-07-201		
Owner: City of Hillsboro Driller: Layne Texas Co.		
Soil	4	4
Clay and sandy clay	18	22
Clay and sandy clay	16	38
Clay and gravel	8	46
Shale	6	52
Shale and boulders	150	202
Sandy shale	45	247
Shale and lime	443	690
Blue shale and lime	45	735
Sandy shale and lime	10	745
Shale and lime	35	780
Hard, gray lime and shale	136	916
Dark shale and lime	26	942
Gray shale and sandy lime	38	980

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

Well LW-40-07-201—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Hard, gray, sandy shale and lime	115	1,095
Hard shale and lime	75	1,170
Hard shale	29	1,199
Hard lime and shale	86	1,285
Sandy lime	20	1,305
Shale and sandy shale	51	1,356
Broken, gray sand	8	1,364
Hard, sandy shale	63	1,427
Sand, gray, lime breaks	34	1,461
Hard shale, green and blue	47	1,508
Shale, green and blue	52	1,560
Sandy shale, red-blue	53	1,613
Hard, sandy shale	71	1,684

Well LW-40-08-101

Owner: Robert Davis
Driller: C. M. Stoner Drilling Co.

Soil	3	3
Rock	57	60
Blue shale	180	240
Brown shale	112	352
Sand	45	397
Shale	27	424
Sand	8	432
Shale	48	480

Well LW-40-08-202

Owner: Mrs. B. H. Cheatham
Driller: C. M. Stoner Drilling Co.

Soil	1	1
White rock	134	135
Blue shale	175	310
Brown shale	129	439
Sand	20	459
Sandy shale	63	522
Sand	24	546
Shale	35	581
Sand	5	586
Shale	23	609

Well LW-40-08-501

Owner: Chatt Water Supply Corp.
Driller: J. L. Myers Sons

Surface soil	15	15
Shale	535	550
Lime	60	610
Lime and shale	267	877
Lime and sandy streaks	120	997
Lime and shale	338	1,335
Lime with sand and shale	325	1,660
Sand with lime and shale streaks	134	1,794
Lime and sand	148	1,942
Sand	98	2,040
Shale	30	2,070

Well LW-40-08-801

Owner: City of Abbott
Driller: J. L. Myers Sons

Topsoil	2	2
Chalk rock	112	114
Shale and lime streaks	404	518
Sandy shale	91	609
Lime	75	684
Broken lime	36	720
Lime with shale streaks	512	1,232
Sandy lime	20	1,252
Broken, sandy lime	61	1,313
Sand	34	1,347
Broken lime	347	1,722
Sandy shale	133	1,855
Shale	12	1,867
Sandy lime	13	1,880
Sandy shale	30	1,910
Broken sand	40	1,950
Sand	22	1,972
Broken sand	38	2,010
Sand	80	2,090
Lime	13	2,103

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

Well LW-40-14-102

Owner: U.S. Army Corps of Engineers
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Surface	4	4
Clay	14	18
Gravel	7	25
Lime	156	181
Lime with shallow shale breaks	74	255
Hard lime	145	400
Sandy shale	34	434
Lime	36	470
Shale	15	485
Lime	335	820
Shale	16	836
Sandy shale	4	840
Sand	13	853
Shale	5	858
Sand	22	880
Lime	8	888
Broken lime and shale	47	935
Sand	15	950
Rock	5	955
Lime and shale	34	989
Sand	21	1,010
Hard sand	8	1,018
Sand	98	1,116
Hard sand	16	1,132
Shale	13	1,145

Well LW-40-14-201

Owner: Prairie Valley Presbyterian Church
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Surface soil	1	1
Clay - rock	5	6
Lime	268	274
Lime - shale	62	336
Lime	66	402
Lime - shale	15	417
Sand	11	428
Lime - shale	22	450

Well LW-40-14-201—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Lime	419	869
Lime - shale	56	925
Lime	15	940
Lime - shale	19	959
Sandy lime	21	980
Sandy shale	21	1,001
Lime	34	1,035
Sandy lime	21	1,056
Lime	24	1,080
Shale	28	1,108
Sand	18	1,126
Shale	43	1,169
Sand	46	1,215
Sandy lime	10	1,225

Well LW-40-14-601

Owner: Baptist Encampment
Driller: Hervey Meadows and Son Well Driller

	THICKNESS (FEET)	DEPTH (FEET)
Soil	2	2
Clay and gravel	15	17
White rock	13	30
Blue rock	60	90
White rock	50	140
Hard, blue rock	55	195
White lime	185	380
Blue shale	40	420
White lime	35	455
Black shale	30	485
Glen Rose lime	570	1,055
Trinity sand	57	1,112

Well LW-40-14-602

Owner: Baptist Encampment
Driller: Hervey Meadows and Son Well Driller

	THICKNESS (FEET)	DEPTH (FEET)
Soil	2	2
Clay and gravel	15	17
White rock	13	30
Blue rock	60	90
White rock	50	140
Hard, blue rock	55	195

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well LW-40-14-602—Continued		
White lime	185	380
Blue shale	40	420
White lime	35	455
Black shale	30	485
Glen Rose lime	560	1,045
Trinity sand	57	1,102
Well LW-40-15-101		
Owner: A. D. Urbanovsky Driller: C. M. Stoner Drilling Co.		
Soil	3	3
Clay	15	18
No record	1	19
Slate	41	60
White rock	490	550
Blue shale	20	570
Sandy shale (Paluxy)	20	590
White rock	480	1,070
Blue shale	80	1,150
Sandy shale	4	1,154
Sand	19	1,173
Green shale	6	1,179
Sandy shale	16	1,195
Sand	26	1,221
Sandy shale	65	1,286
Sand	211	1,497
Well LW-40-15-102		
Owner: Aquilla Water Supply Corp. Driller: J. L. Myers Sons		
Soil	12	12
Clay	6	18
Sandy clay	13	31
Clay and rock	11	42
Shale	48	90
Limestone and shale	28	118
Limestone	72	190
Limestone and shale	366	556
Limestone	19	575
Sand	31	606
Limestone and shale	192	798
Sandy limestone	28	826
Limestone	20	846
Limestone and shale	96	942
Anhydrite	15	957
Limestone	62	1,019
Sandy limestone	61	1,080
Limestone and shale	92	1,172
Sandy limestone	76	1,248
Limestone and shale	26	1,274
Shale	41	1,315
Sand and shale	55	1,370
Sand	40	1,410
Sand and shale	62	1,472
Shale	13	1,485
Well LW-40-15-201		
Owner: Menlow Water Supply Corp. Driller: C. M. Stoner Drilling Co.		
Soil	2	2
Yellow clay	38	40
Sandy shale	40	80
Blue shale	180	260
White rock	490	750
Sand	20	770
Lime rock	555	1,325
Sandy lime	25	1,350
Sand	50	1,400
Blue shale	50	1,450
Broken sand and shale	25	1,475
Sand	43	1,518
Red bed	12	1,530
Broken sand and red bed	10	1,540
Red bed	30	1,570
Sand	130	1,700

HILL COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

Well LW-32-53-701

Owner: U.S. Army Corps of Engineers

DATE	WATER LEVEL
Apr. 13, 1963	+ 3
Mar. 23, 1966	23.17
Apr. 17, 1967	22.46
Mar. 18, 1968	23.73
Mar. 7, 1969	39.70

Well LW-32-53-902

Owner: Blum Water Supply Corp.

DATE	WATER LEVEL
Sept. 28, 1964	150
Feb. 18, 1965	123.96
Mar. 11, 1966	117.90
Mar. 24, 1967	130.40
Mar. 20, 1968	129.51
Mar. 7, 1969	132.65

Well LW-32-54-501

Owner: Edith Hood

DATE	WATER LEVEL
May 18, 1960	19
Mar. 11, 1966	27.13
Apr. 17, 1967	18.78
Mar. 18, 1968	17.75
Mar. 4, 1969	18.30

Well LW-32-54-601

Owner: R. A. Harris

DATE	WATER LEVEL
Aug. 31, 1958	175
Nov. 19, 1964	299.33
Apr. 19, 1966	355.49
Apr. 18, 1967	330.24
Mar. 20, 1968	303.15
Mar. 4, 1969	358.7

Well LW-32-54-701

Owner: Gulf Oil Corp.

DATE	WATER LEVEL
Feb. 18, 1965	179.10
Mar. 11, 1966	175.50
Mar. 24, 1967	181.26
Mar. 19, 1968	183.25
Mar. 7, 1969	189.10

Well LW-32-55-304

Owner: Sam Gard

DATE	WATER LEVEL
July 19, 1964	85
Dec. 21, 1965	67.36
Sept. 7, 1966	58.21
Sept. 26, 1966	58.16
Oct. 27, 1966	57.70
Nov. 21, 1966	58.06
Feb. 7, 1967	58.75
Mar. 8, 1967	62.07
June 2, 1967	62.23
June 27, 1967	61.15
July 31, 1967	59.54
Sept. 13, 1967	64.00
Oct. 9, 1967	64.50
Nov. 6, 1967	60.86
Dec. 7, 1967	57.59
Jan. 11, 1968	55.47
Feb. 12, 1968	53.45
Mar. 3, 1969	62.10

Well LW-32-55-601

Owner: — Morris

DATE	WATER LEVEL
Dec. 15, 1965	125.62
Dec. 5, 1966	124.63
Mar. 8, 1967	114.73

Well LW-32-55-902

Owner: City of Itasca

DATE	WATER LEVEL
Apr. 20, 1939	133
Feb. 17, 1965	198.00
Dec. 30, 1965	146.63
Mar. 11, 1966	219.33
Mar. 8, 1967	218.01
Mar. 20, 1968	221.23
Mar. 3, 1969	237.7

Well LW-32-55-909

Owner: Ernest Whitfield

DATE	WATER LEVEL
Dec. 30, 1965	113.28
Mar. 25, 1968	113.52

Well LW-32-56-902

Owner: A. G. Bailey

DATE	WATER LEVEL
Sept. 16, 1964	480
Dec. 30, 1965	384.95

Well LW-32-61-201

Owner: Brazos Lime Co.

DATE	WATER LEVEL
Apr. 22, 1964	165
Feb. 17, 1965	170
Mar. 11, 1966	143.05
Mar. 24, 1967	167.79
Mar. 20, 1968	161.13
Mar. 7, 1969	172.10

Well LW-32-62-302

Owner: Ed Allen

DATE	WATER LEVEL
Jan. 16, 1964	175
Mar. 10, 1966	159.00
Apr. 17, 1967	161.63
Mar. 18, 1968	163.72
Mar. 4, 1969	171.10

Table 4.–Water Levels in Selected Wells in Hill County—Continued

DATE	WATER LEVEL
Well LW-32-62-401	
Owner: T. E. Harris	
June 22, 1960	125
Mar. 10, 1966	153.05
Sept. 7, 1966	157.41
Sept. 26, 1966	158.38
Oct. 27, 1966	157.61
Nov. 21, 1966	157.89
Feb. 7, 1967	157.87
Mar. 24, 1967	159.10
May 8, 1967	158.06
June 2, 1967	158.38
June 27, 1967	158.96
Sept. 13, 1967	162.81
Nov. 6, 1967	161.21
Dec. 7, 1967	161.00
Jan. 11, 1968	161.05
Feb. 12, 1968	162.10
Mar. 18, 1968	161.32
Mar. 6, 1969	171.30
Well LW-32-62-501	
Owner: Griffin Rogers	
July 13, 1960	3
Mar. 10, 1966	8.57
Mar. 24, 1967	8.71
Mar. 18, 1968	8.33
Mar. 4, 1969	6.50
Well LW-32-62-701	
Owner: Lonnie Allen	
Mar. 9, 1966	125.10
Mar. 24, 1967	132.21
Mar. 18, 1968	134.50
Mar. 7, 1969	142.75
Well LW-32-62-901	
Owner: W. T. Allison	
July 14, 1960	14.00
Mar. 10, 1966	15.23

DATE	WATER LEVEL
Well LW-32-62-901—Continued	
Mar. 24, 1967	16.72
Mar. 18, 1968	13.14
Well LW-32-63-301	
Owner: C. M. Myers	
Jan. 25, 1962	135
Dec. 21, 1965	128.24
Mar. 8, 1967	124.07
Mar. 25, 1968	121.61
Mar. 3, 1969	120.90
Well LW-32-63-403	
Owner: Joe Esmond	
Nov. 15, 1965	230
Oct. 7, 1968	230.50
Well LW-32-63-910	
Owner: City of Hillsboro	
Nov. 5, 1941	135
Jan. 26, 1949	221
Oct. 7, 1968	385.30
Mar. 10, 1969	428.7
Well LW-32-63-912	
Owner: Hillsboro Cotton Mill	
June 27, 1960	115
Apr. 17, 1967	113.68
Mar. 18, 1968	119.70
Mar. 10, 1969	114.00
Well LW-32-64-102	
Owner: Boyd "Buck" Bailey	
Dec. 15, 1965	221.90
Apr. 26, 1966	217.05
Sept. 7, 1966	216.07
Sept. 26, 1966	213.43
Oct. 27, 1966	213.2
Well LW-32-64-301	
Owner: D. O. Clinkscales	
June 14, 1963	435
Dec. 30, 1965	469.16

DATE	WATER LEVEL
Well LW-32-64-301—Continued	
Apr. 18, 1967	472.17
Mar. 25, 1968	475.81
Well LW-32-64-702	
Owner: Certain - Teed Production Corp.	
Dec. 11, 1962	232
Apr. 17, 1967	340.17
Mar. 25, 1968	379.50
Mar. 10, 1969	390.6
Well LW-33-57-402	
Owner: Brandon - Irene Water Supply Corp.	
May 26, 1966	181.4
Mar. 25, 1968	227.60
Mar. 6, 1969	230.60
Well LW-33-57-601	
Owner: City of Mertens	
Aug. 12, 1930	60
Mar. 5, 1966	190.00
Apr. 13, 1967	299.75
Mar. 26, 1968	306.20
Mar. 3, 1969	334.0
Well LW-39-01-602	
Owner: Malone Water Supply Corp.	
Sept. 30, 1964	Flowed
May 16, 1967	13.96
Mar. 20, 1968	23.28
Mar. 3, 1969	29.30
Well LW-39-09-201	
Owner: City of Penelope	
May 24, 1960	18
May 16, 1967	101.84
Mar. 25, 1968	111.00
Mar. 3, 1969	117.60

Table 4.—Water Levels in Selected Wells in Hill County—Continued

Well LW-39-09-901

Owner: City of Mt. Calm

DATE	WATER LEVEL
Dec. 9, 1964	123.30
Mar. 2, 1966	129.46
Apr. 13, 1967	137.59
Mar. 26, 1968	145.08
Mar. 6, 1969	160.00

Well LW-39-10-201

Owner: City of Hubbard

DATE	WATER LEVEL
June 28, 1960	200
Mar. 19, 1965	137.91
Apr. 9, 1965	139.66
Mar. 2, 1966	146.34
Apr. 13, 1967	152.90

Well LW-39-10-202

Owner: City of Hubbard

DATE	WATER LEVEL
June 28, 1960	200
Apr. 9, 1965	136.26
Sept. 7, 1966	153.05
Sept. 26, 1966	153.19
Oct. 27, 1966	154.32
Nov. 21, 1966	154.95
Feb. 7, 1967	157.02
Apr. 13, 1967	158.49
May 8, 1967	159.20
June 2, 1967	160.19
June 27, 1967	160.71
July 31, 1967	161.62
Sept. 13, 1967	162.31
Oct. 9, 1967	163.04
Nov. 6, 1967	164.15
Dec. 7, 1967	164.54
Jan. 11, 1968	165.11
Feb. 12, 1968	166.24
Mar. 6, 1969	175.90

Well LW-40-06-104

Owner: Lake Whitney Enterprises

DATE	WATER LEVEL
July 8, 1958	30
Mar. 8, 1966	84.25
Mar. 6, 1969	104.49

Well LW-40-06-501

Owner: City of Whitney

DATE	WATER LEVEL
Mar. 5, 1942	Flowed
Mar. 22, 1949	0
June 16, 1960	50
May 15, 1963	87.00
Mar. 8, 1966	120.08

Well LW-40-06-801

Owner: Lake Whitney Enterprises

DATE	WATER LEVEL
Mar. 8, 1966	58.67
Mar. 13, 1967	110.2
Mar. 19, 1968	116.2
Mar. 6, 1969	145.7

Well LW-40-07-801

Owner: Cox and McIlroy

DATE	WATER LEVEL
July 12, 1960	50
Mar. 7, 1966	213.51
Sept. 7, 1966	204.75
Sept. 26, 1966	207.62
Oct. 27, 1966	207.52
Mar. 13, 1967	205.79
June 27, 1967	205.02
Sept. 13, 1967	206.78
Oct. 9, 1967	206.64
Nov. 6, 1967	207.62
Jan. 11, 1968	206.98
Feb. 12, 1968	206.54
Mar. 18, 1968	206.16
Mar. 4, 1969	213.50

Well LW-40-14-102

Owner: U.S. Army Corps of Engineers

DATE	WATER LEVEL
Mar. 22, 1949	Flowed
1964	Flowed
Mar. 9, 1966	16.19
Sept. 7, 1966	31.09
Sept. 26, 1966	26.85
Oct. 27, 1966	25.86
Nov. 21, 1966	26.71
Feb. 7, 1967	24.83
Mar. 13, 1967	24.64
Apr. 17, 1967	27.09
May 8, 1967	26.77
June 2, 1967	30.13
Oct. 9, 1967	34.27
Nov. 6, 1967	33.23
Dec. 7, 1967	31.00
Jan. 11, 1968	31.74
Feb. 12, 1968	31.29
Mar. 18, 1968	30.90
Mar. 6, 1969	38.55

Well LW-40-14-201

Owner: Prairie Valley Presbyterian Church

DATE	WATER LEVEL
Mar. 8, 1966	83.77
Mar. 13, 1967	81.47
Mar. 4, 1969	93.94

Well LW-40-14-602

Owner: Baptist Encampment

DATE	WATER LEVEL
May 17, 1960	Flowed
Mar. 9, 1966	42.45
Apr. 14, 1967	59.42
Mar. 18, 1968	57.85
Mar. 4, 1969	63.45

Table 4.—Water Levels in Selected Wells in Hill County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL
Well LW-40-15-102		**Well LW-40-15-201**	
Owner: Aquilla Water Supply Corp.		Owner: Menlow Water Supply Corp.	
Jan. 1960	62	Nov. 19, 1965	170
Mar. 9, 1966	79.00	Apr. 14, 1967	183.42
May 16, 1967	101.43	Mar. 19, 1968	189.95
Mar. 18, 1968	100.76	Mar. 4, 1969	200.60

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board Personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recaluclated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

	WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
	LW-32-53-902	934	Apr. 10, 1962	Khe	--	0.17	3	2	190	--	362	85	24	0.5	< 0.4	--	501	483	17	96	835	8.1	20.7
1/	54-501	40	May 18, 1960	Kwb	22	--	16	6.2	* 23	--	23	47	28	--	9.0	--	162	--	65	43	255	5.5	1.2
1/	601	1,400	Apr. 20, 1961	Khe	13	.16	8.5	7.2	* 331.7	--	407	360	43	2.3	1.0	0.58	967	--	50	93	1,500	8.1	20.3
	601	1,400	July 6, 1966	do.	--	1.40	4	4	266	--	372	236	40	1.4	< .4	--	930	736	29	96	1,296	8.5	22.3
	701	428	Feb. 18, 1965	Kp	8	--	2	1	386	--	610	215	37	5.8	3.5	--	990	959	10	99	1,580	8.9	56.0
	55-304	273	Sept. 16, 1968	Kwb	13	1.86	226	29	91	--	336	472	96	.9	< .4	--	1,090	--	690	22	1,500	7.2	1.5
	902	1,835	Feb. 14, 1939	Kho	17	.08	4	3	* 248	--	433	80	75	< .2	.4	--	675	642	23	96	--	8.6	22.5
1/	902	1,835	Jan. 1943	do.	14	.01	.6	0.5	* 247.4	--	434	80	67	.3	1.5	--	638	625	4	99	--	8.4	53.8
	902	1,835	Aug. 17, 1949	do.	12	.06	7	2	* 264	--	491	91	71	.2	< .4	--	642	689	26	96	--	8.6	23.0
	902	1,835	Aug. 12, 1953	do.	17	.13	15	10	275	--	414	227	64	.6	< .4	--	830	813	79	88	--	8.3	13.4
	902	1,835	June 17, 1963	do.	--	.60	242	114	810	--	270	2,380	37	1.3	< .4	--	3,860	3,719	1,070	62	6,447	7.6	10.6
	902	1,835	July 3, 1963	do.	--	.1	95	56	580	--	290	1,370	38	1.2	< .4	--	2,430	2,284	468	73	3,968	7.6	11.7
	902	1,835	June 4, 1964	do.	--	.06	106	50	580	--	307	1,360	38	2.7	< .4	--	2,440	2,288	470	73	4,074	7.8	11.6
	903	312	Aug. 12, 1953	Kwb	53	1.1	9	13	199	--	536	68	21	.5	< .4	--	700	629	126	85	--	8.6	9.9
	903	312	Sept. 16, 1955	do.	100	2.5	2	1	261	--	512	74	28	.4	< .4	--	760	722	9	98	--	8.5	37.8
2/	904	1,856	June 22, 1956	Kho	--	.25	3	.5	254.6	--	451.4	80	63	--	--	--	902	624	10	98	--	8.4	36.9
	904	1,856	Jan. 18, 1961	do.	--	.08	3	1	245	--	437	98	62	.9	< .4	--	672	625	10	98	1,120	8.5	26.6
1/	905	300	May 19, 1960	Kwb	12	--	32	16	* 308	--	307	466	56	--	.2	--	1,040	--	146	82	1,580	7.0	11.1
1/	56-402	488	May 26, 1960	do.	12	.03	1.5	.0	297.2	--	485	201	25	.8	.2	1.7	779	--	4	99	1,200	8.2	64.6
	61-201	1,002	Sept. 16, 1968	Kho	12	< .02	3	2	197	--	389	86	29	.3	< .4	--	520	--	17	97	826	8.3	21.4
	901	780	Apr. 11, 1963	Khe	--	2.2	5	1	251	--	262	225	29	1.3	< .4	--	830	644	17	97	1,236	9.4	27.3
	62-302	1,213	Sept. 17, 1968	do.	14	.28	4	5	236	--	386	181	38	1.2	< .4	--	670	--	30	94	1,054	8.2	18.3
	401	1,020	Sept. 16, 1968	do.	13	.22	5	4	246	--	382	199	36	1.4	< .4	--	690	--	30	95	1,050	8.1	21.0
1/	63-901	200	Jan. 1943	Kwb	10	.02	2.7	1.1	* 289	--	508	160	35	.2	2.5	--	762	751	12	98	--	8.3	38.1
	901	200	May 1, 1957	do.	--	2.2	4	1	313	--	499	180	52	1.2	1.8	--	760	800	13	98	1,260	8.3	36.8
	902	842	Apr. 19, 1955	Kp	20	.6	12	5	457	--	488	507	82	3.0	5.3	--	1,296	1,332	51	95	--	8.2	28.0

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
1/ LW-32-63-908	1,810	Jan. 1943	Kho	18	0.07	3.5	1.6	* 268	--	464	116	59	0.3	0.0	--	704	--	16	97	--	8.3	29.9
1/ 909	1,784	Feb. 13, 1943	Kp, Kho	6.5	.02	55	25	* 496	--	399	861	66	.4	2.5	--	1,712	--	240	82	--	7.9	13.9
909	1,784	Nov. 28, 1962	do.	--	.32	35	16	427	--	480	576	40	1.5	< 0.4	--	1,576	1,332	154	86	2,398	7.7	15.0
910	845	Apr. 19, 1955	Kp	17	.23	6	3	495	--	488	581	71	3.8	< .4	--	1,375	1,418	28	98	--	8.2	40.6
910	845	May 1, 1957	do.	--	.80	6	4	464	--	476	586	75	5.0	< .4	--	1,420	1,375	31	97	2,368	8.2	35.4
910	845	Oct. 7, 1968	do.	13	.22	6	4	478	--	488	570	63	4.5	< .4	--	1,380	--	32	97	2,030	8.3	36.5
64-302	727	June 8, 1965	Kwb	10	--	1	1	390	--	600	245	64	2.2	< .4	--	1,010	--	9	99	1,630	7.9	65.3
701	2,000	Nov. 28, 1962	Kwb, Kp Kgr, Kcp	--	.16	7	3	338	--	485	242	70	2.0	< .4	--	1,147	901	28	96	1,620	8.3	26.7
2/ 702	1,876	Dec. 18, 1962	Ktp	--	.3	12	3.8	253.9	--	453.8	177.4	28	--	--	--	1,006	698	46	92	1,095	7.45	16.2
801	595	Nov. 22, 1968	Kwb	10	--	6	5	496	--	630	454	89	4.5	.5	--	1,380	--	33	97	2,040	8.0	36.0
33-57-402	2,652	May 2, 1966	Kho	--	.54	5	2	298	--	530	98	92	1.7	< .4	--	1,030	759	20	97	1,440	8.4	28.2
1/ 601	832	Mar. 22, 1949	Kwb	12	.57	3.2	1.5	* 590.6	--	654	487	166	4.4	1.8	1.5	1,590	--	14	99	2,440	8.2	69.4
601	832	Sept. 1, 1949	do.	28	.12	11	10	* 564	--	653	493	174	3.2	2.2	--	1,620	1,607	69	95	--	8.0	29.6
601	832	Mar. 13, 1968	do.	--	.08	4	2	580	--	640	467	165	3.4	< .4	--	1,860	1,537	18	99	--	8.4	60.1
39-01-102	870	Nov. 29, 1968	do.	7	--	7	5	1,000	--	850	670	550	4.1	< .4	--	2,680	2,662	37	98	3,850	8.5	70.2
1/ 601	2,471	Jan. 1943	Khe, Kpe	18	.18	147	49	* 875	--	225	2,072	76	1.4	1.0	--	3,440	3,351	568	77	--	7.8	16.0
1/ 601	2,471	Mar. 22, 1949	do.	24	3.2	149	55	* 892	--	224	2,156	77	2.8	.2	0.66	3,460	--	598	76	4,380	7.2	15.8
601	2,471	Feb. 3, 1953	do.	24	.7	180	74	851	--	250	2,220	78	.8	< .4	--	3,560	--	753	71	--	7.3	13.5
601	2,471	Nov. 28, 1962	do.	--	2.6	74	101	859	--	236	2,126	85	.0	< .4	--	3,483	3,364	602	76	5,943	7.4	15.3
3/ 602	2,988	May 10, 1963	Kho	--	--	5.5	0.8	239	2.8	425	27.5	116.3	--	.4	--	625	603	14.4	96	--	8.05	25.4
602	2,988	Sept. 23, 1963	do.	--	.04	9	0	280	--	510	75	106	1.0	.4	--	990	722	22	96	1,362	8.4	25.4
1/ 02-101	915	Jan. 1943	Kwb	7.0	.04	5.7	2.4	* 822	--	750	505	460	4.4	2.0	--	2,219	2,178	24	98	--	8.0	73.0
101	915	Sept. 5, 1962	do.	--	.18	5	3	833	--	760	474	481	4.3	< .4	--	2,560	2,175	25	98	4,032	8.2	63.6
09-201	3,138	Apr. 19, 1960	Kho	--	.15	5	< 1	295	--	456	83	155	1.1	< .4	--	822	765	15	96	1,370	8.0	26.2
1/ 201	3,138	May 24, 1960	do.	22	.13	4.5	.8	* 311.1	--	468	89	152	1.2	1.0	1.7	828	812	14	98	1,370	--	34.7
402	3,250	Sept. 23, 1965	do.	--	.36	† 6	--	324	--	580	102	79	2.7	1.5	--	1,100	801	14	--	1,432	8.4	--
4/ 901	3,458	Dec. 11, 1964	do.	13.8	.3	5.6	1.5	327.2	--	517.3	131.7	95	2.0	--	--	1,116	832	20	97	--	8.1	31.6
901	3,458	Dec. 18, 1964	do.	--	.54	4	1	335	--	550	148	93	3.1	< .4	--	1,140	856	17	98	1,520	8.2	39.4
1/ 10-201	3,555	Apr. 21, 1961	Kho	31	.00	5.0	.8	* 487	--	656	267	134	3.4	.0	1.5	1,220	--	16	98	1,950	7.9	49.7
201	3,555	Mar. 11, 1966	do.	--	.04	† 7	--	467	--	650	260	174	3.2	1.5	--	1,570	1,238	14	--	2,570	8.4	--
40-05-303	1,200	Apr. 15, 1966	do.	--	.04	2	1	214	--	372	94	39	.5	< .4	--	730	534	12	98	995	8.6	31.0
4/ 06-101	1,278	Dec. 4, 1967	do.	--	.05	2	1.5	204.6	--	351.4	63.6	43.7	.6	.3	--	691.8	491	11.2	98	880	8.5	27.0
1/ 104	1,166	May 3, 1963	do.	14	.03	2.5	1.2	227	--	402	104	46	.4	0	--	595	--	11	98	944	8.1	29.9
104	1,166	Apr. 15, 1966	do.	--	.04	2	1	214	--	367	96	43	.5	< .4	--	740	537	9	98	1,020	8.7	31.0

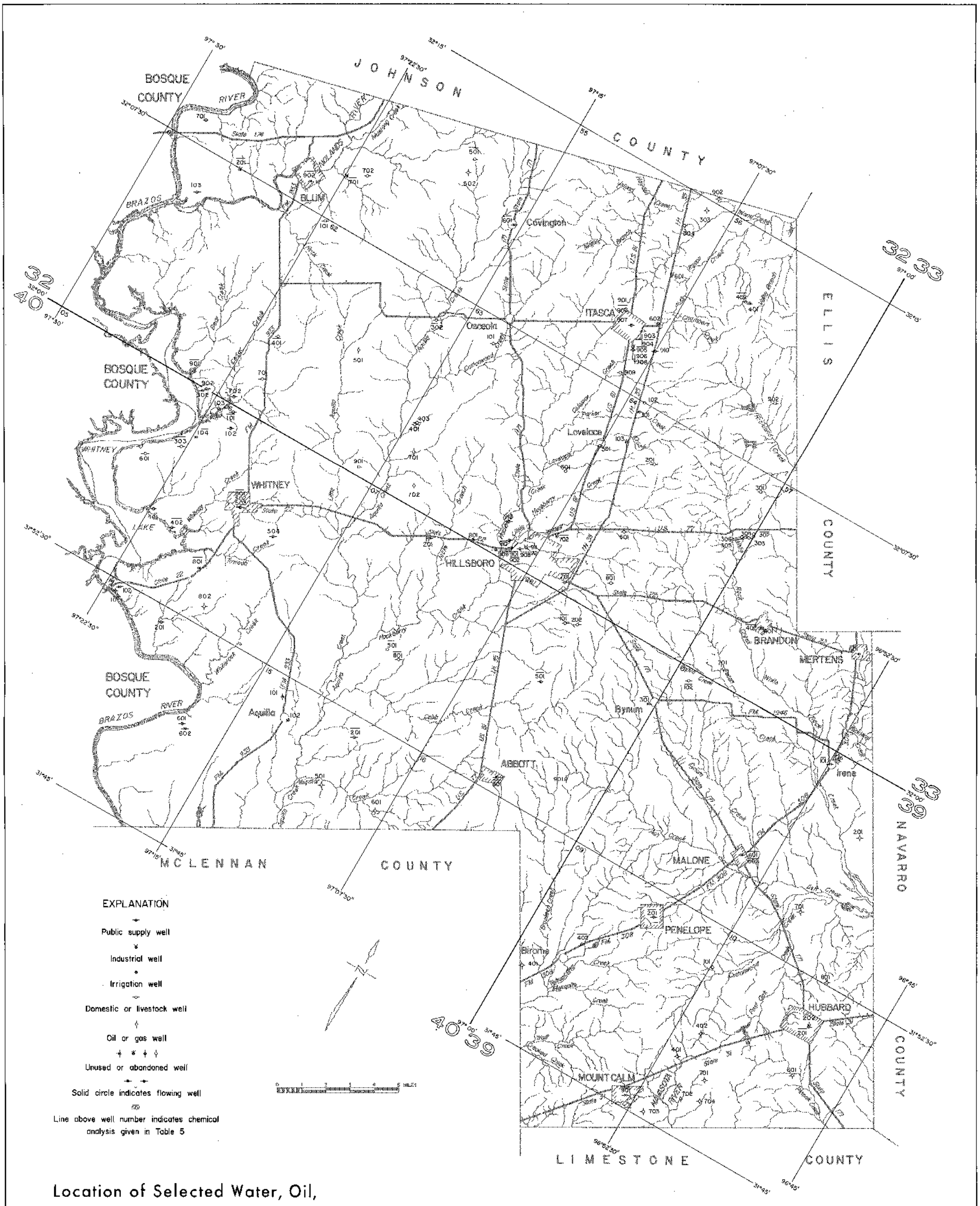
See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
LW-40-06-401	1,800	May 1968	Ktp	--	0.02	--	--	--	--	--	96	43	0.7	0.4	--	760	--	--	--	--	--	--
402	1,105	do.	Kho	--	.04	--	--	--	--	--	91	40	.4	.4	--	750	--	--	--	--	--	--
402	1,105	Aug. 20, 1968	do.	--	.04	3	2	215	--	364	88	36	.9	< .4	--	730	524	15	97	975	8.9	23.4
1/ 501	1,283	Mar. 22, 1949	do.	14	.11	2.6	1.4	* 227	--	398	115	41	.8	1.2	0.32	604	--	12	98	972	8.3	27.4
501	1,283	Apr. 18, 1955	do.	12	.1	3	1	230	--	378	108	50	.5	< .4	--	590	--	12	98	--	8.4	28.6
4/ 504	1,470	Jan. 8, 1966	do.	14.4	.16	3.2	1.9	220.4	--	356.2	97.7	43.0	.6	.4	--	761.6	557	14	97	--	8.3	24.0
504	1,470	May 12, 1966	do.	--	.12	3	1	214	--	378	97	38	.5	< .4	--	740	540	12	98	1,000	8.6	26.6
1/ 801	1,275	Feb. 27, 1950	do.	20	--	4	.9	* 224	--	420	105	34	--	.2	--	601	--	14	97	922	8.1	26.3
2/ 07-201	1,684	Nov. 24, 1952	Kp, Kgr, Ktp	12	.2	10.6	6.2	* 485.5	--	488	543	94	--	--	--	1,691.3	1,392	52	95	--	7.85	29.3
501	185	Dec. 2, 1968	Kwb	9	--	16	9	476	--	416	600	114	2.3	2.5	--	1,430	--	78	93	2,090	7.7	23.5
801	796	Sept. 16, 1968	Kp	9	2.90	27	25	890	--	500	1,350	240	4.2	< .4	--	2,790	--	170	92	3,680	7.9	29.6
08-101	480	Nov. 22, 1968	Kwb	10	--	4	2	526	--	590	494	131	2.9	< .4	--	1,460	--	18	98	2,150	8.3	54.5
301	726	Dec. 11, 1959	do.	--	.3	6	3	790	--	711	600	340	5.0	< .4	--	2,250	2,095	28	98	3,730	8.2	64.8
301	726	Sept. 17, 1968	do.	12	.06	13	15	760	--	710	620	335	4.2	< .4	--	2,110	--	92	95	3,060	7.9	34.1
4/ 501	2,070	July 15, 1968	Kho	--	.1	3.2	1.5	250.6	--	414.8	83.3	65	.8	.2	--	843.5	609	14	97	1,100	8.7	29.5
801	2,103	July 14, 1954	do.	22	.08	4	2	247	--	439	90	57	.8	2.2	--	646	--	18	97	--	8.4	25.6
801	2,103	Feb. 1959	do.	--	.01	3	1	* 213	--	364	75	57	.8	1.1	--	594	530	11	98	990	8.0	25.7
801	2,103	June 23, 1960	do.	--	.03	3	1	216	--	439	76	59	.8	< .4	--	614	572	11	98	1,024	8.4	26.1
1/ 14-102	1,145	Mar. 22, 1949	do.	13	1.1	3.2	1.4	* 217.2	--	376	86	28	.6	.8	.19	555	536	12	98	879	8.6	27.0
102	1,145	Sept. 16, 1968	do.	14	.10	2	3	203	--	406	84	29	.5	< .4	--	540	--	16	96	844	8.4	21.0
1/ 15-101	1,497	Apr. 21, 1961	Ktp	14	.11	5	2.5	* 230.8	--	419	131	34	1.9	.2	.50	626	--	23	96	1,020	8.1	20.9
102	1,485	Nov. 11, 1965	Kho	--	.04	4	3	216	--	398	83	39	1.0	< .4	--	750	542	20	95	1,005	8.6	19.6
201	1,700	Mar. 15, 1966	do.	--	.26	† 6	--	230	--	405	79	58	.8	< .4	--	790	573	14	--	1,080	8.6	--

* Sodium and potassium calculated as sodium (Na)
† Calcium and magnesium calculated as calcium (Ca)

LABORATORY CONDUCTING ANALYSIS:
1/ U.S. Geological Survey Laboratory
2/ Curtis Laboratories
3/ North Texas State University Water Research Laboratory
4/ Pope Testing Laboratories



Location of Selected Water, Oil, and Gas Wells in Hill County

HOOD COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* LY-31-32-901	Herman D. Howard	Herman D. Howard	1952	46	48	15	Ktp	962	27 28.60	1957 Mar. 27, 1969	J, E 1	P	Dug well with concrete wall from 15 ft to surface. Open hole from 15 to 46 feet. Pump set at 44 ft. Estimated yield 15 gpm. Texas Water Development Board observation well. 1/
32-41-102	Stanley Allen	Measure Brothers	1965	140	--	--	do.	879	47.16 45.45	Oct. 25, 1965 Mar. 27, 1969	Sub, E 2	Irr	Measured yield 46 gpm. Texas Water Development Board observation well. 1/
42-302	J. L. Wiggins	L. R. Johnson	1948	396	4	396	do.	880	229	Sept. 28, 1960	--	D, S	Perforated from 366 to 396 ft. Pump set at 233 ft.

* For chemical analysis of water, see Table 5.
1/ For water-level measurements, see Table 4.

HOOD COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
LY-32-41-903	DeSoto Oil Co.	B. W. Wann No. 1	1952	5,083	788	E
42-202	Mid-Continent Petroleum	Squaw Creek Cattle Co. No. 1	1950	5,578	911	E
43-102	B. W. Fitzgerld	Van Morrison No. 1	1951	4,507	866	E

HOOD COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

DATE	WATER LEVEL
Well LY-31-32-901	
Owner: Herman D. Howard	
1957	27
Oct. 25, 1967	34.6
Mar. 27, 1969	28.60
Well LY-32-41-102	
Owner: Stanley Allen	
Oct. 25, 1965	47.16
Apr. 4, 1966	44.34
Mar. 15, 1967	46.02
Mar. 28, 1968	44.23
Mar. 27, 1969	45.45

HOOD COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rock undifferentiated.

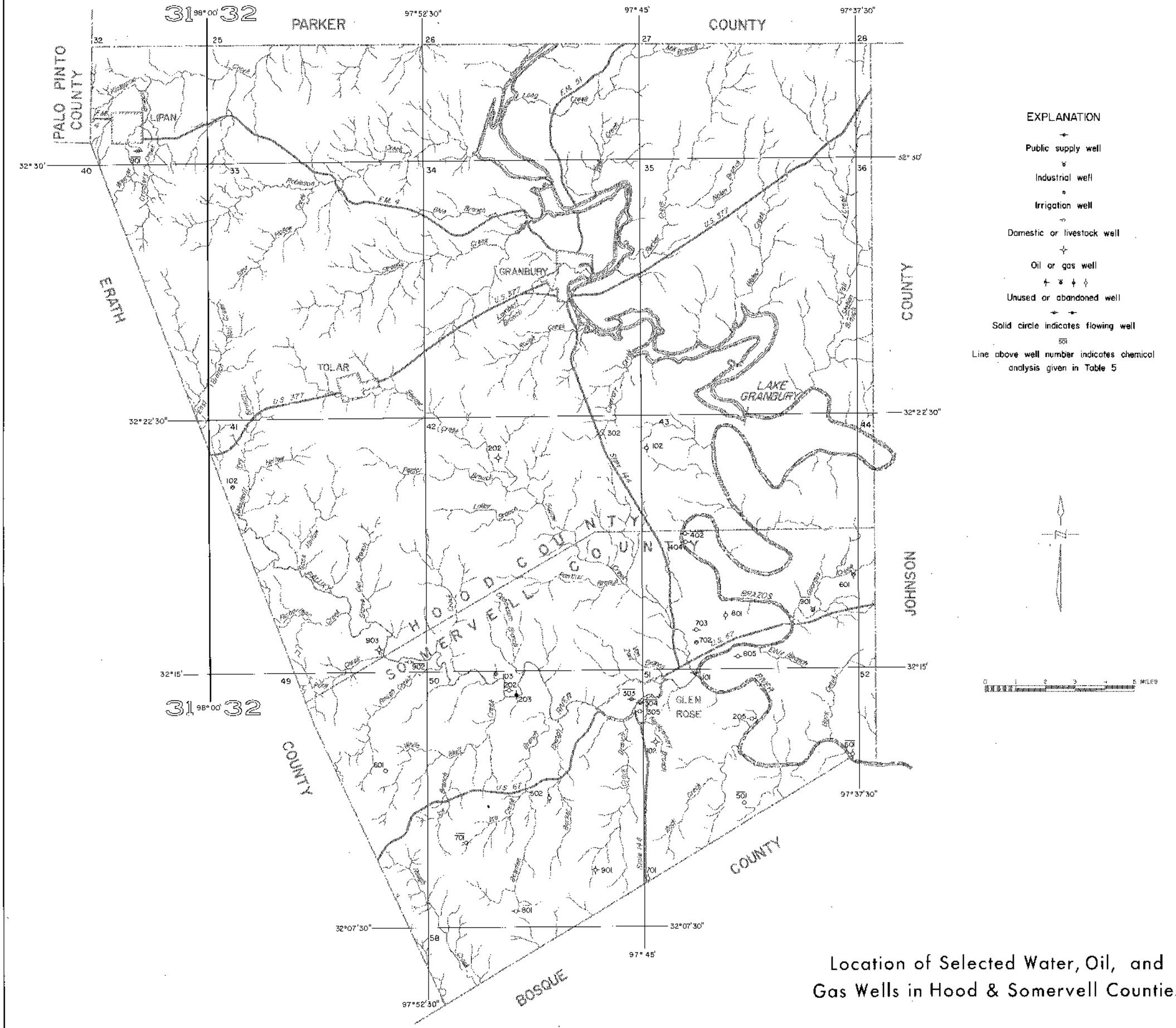
Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
1/ LY-31-32-901	46	May 1960	Ktp	--	0.25	146	23	* 30	--	291	33	55	0.4	162	--	643	592	460	12	1,072	7.0	0.6
901	46	May 9, 1966	do.	--	< .02	109	16	24	--	346	26	23	.5	44	--	590	413	337	13	784	7.4	.6

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:
1/ U.S. Geological Survey Laboratory



Location of Selected Water, Oil, and Gas Wells in Hood & Somervell Counties

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* PX-32-44-601	E. M. Smith	C. Glenn Wallen and Son	1965	405	7 4	-- 405	Kp	823	261	July 20, 1966	Sub, E	D	Well used in 1969 Johnson County report. Slotted from 340 to 345 and 381 to 405 ft. Reported yield 13 gpm.
45-801	Woody Walls	do.	1965	610	4 3	-- 610	do.	750	271	Sept. 13, 1966	Sub, E 1	D	Well used in 1969 Johnson County report. Slotted from 381 to 445, 529 to 555, and 590 to 610 ft.
* 46-201	Johnson County Water Supply Corp.	C. M. Stoner Drilling Co.	1965	1,518	10	1,518	Kho	902	730	Sept. 28, 1967	Sub, E 75	P	Well used in 1969 Johnson County report. Perforated from 1,395 to 1,518 ft. Pump set at 989 ft. Reported yield 225 gpm. Cemented from 1,398 ft to surface. 1/ 2/
903	Parker Water Supply Corp.	J. L. Myers Sons	1965	1,612	6	--	do.	862	700	June 1965	Sub, E	P	Well used in 1969 Johnson County report. Reported yield 100 gpm. 2/
47-103	Johnson County Water Supply Corp.	C. M. Stoner Drilling Co.	1966	1,608	7	--	do.	759	543	Oct. 26, 1966	Sub, E	P	Well used in 1969 Johnson County report. Can perforated with 41 shots 1,562 to 1,582 ft, 17 shots 1,600 to 1,608 ft, 33 shots 1,630 to 1,646 ft, 9 shots 1,656 to 1,660 ft, and 17 shots 1,664 to 1,672 ft. Reported yield 80 gpm with 134 ft of drawdown after 24 hours. 2/
502	Mrs. Stella Atlas	do.	1965	275	4	275	Kwb	730	199	Aug. 3, 1966	C, E W	D, S	Well used in 1969 Johnson County report. Perforated from 206 to 213 and 225 to 228 ft.
* 802	City of Grandview	do.	1955	852	8 6	798 852	Kp	694	257 236	1955 1957	T, E 20	P	Well used in 1969 Johnson County report. Screened from 802 to 846 ft. Pumping level 305 ft at 125 gpm on Sept. 7, 1960. Pump set at 480 ft. Temp. 79°F. Well drilled to 868 ft and plugged back to 852 ft.
* 803	do.	Layne Texas Co.	1945	214	12 7	-- 187	Kwb	692	93 93 108.5	1949 1960 Oct. 26, 1966	?, N 7-1/2	P	Well used in 1969 Johnson County report. Screened from 188 to 210 ft. Pump set at 190 ft. Temp. 69°F.
* 52-202	Texas Lime Co.	C. M. Stoner Drilling Co.	1965	926	7	926	Kho	760	250 251.5	Oct. 1965 July 20, 1966	Sub, E	Ind	Well used in 1969 Johnson County report. Slotted from 784 to 893 ft. Reported yield 222 gpm.
* 53-302	Wallis Simpson	Ralph Bayless	1960	510	7	400	Kp	743	265 301.0	Sept. 1960 Aug. 17, 1966	Sub, E 1-1/2	P	Well used in 1969 Johnson County report. Open hole completion from 400 to 510 ft. Pump set at 360 ft. Estimated yield 10 gpm.
* 402	U.S. Army Corps of Engineers	--	--	550	--	--	Khe	540	59	June 6, 1968	Sub, E 3/4	P	--
* 501	Roy Giddens	Ralph Bayless	1961	425	4	425	Kp	810	307.3	Aug. 23, 1966	Sub, E	D, S	Well used in 1969 Johnson County report. Slotted from 385 to 425 ft. Gravel packed.
* 54-101	Wallis Simpson	C. M. Stoner Drilling Co.	1965	1,215	7	1,215	Kho	737	317.4 313.2	Aug. 17, 1966 Oct. 24, 1966	Sub, E 25	P	Well used in 1969 Johnson County report. Slotted from 1,137 to 1,215 ft. Pumping level 400 ft at 168 gpm on Aug. 17, 1966. Pump set at 611 ft. Estimated yield 150 gpm. Temp. 84.5°F. 1/ 2/ 3/

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I.

JOHNSON COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
PX-32-37-402	Warren Petroleum Corp.	H. D. Hanna No. 1	1955	3,723	931	E
47-603	Shell Oil Co.	B. W. Goodwin No. 1	1965	1,570	685	E

Table 3.—Drillers' Logs of Selected Wells

Well PX-32-46-201

Owner: Johnson County Water Supply Corp.
Driller: C. M. Stoner Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Soil	1	1
Clay	7	8
Sand and shale	32	40
Blue shale	35	75
Sand	25	100
Sandy shale	30	130
Sand	15	145
White rock	505	650
Sand	40	690
Sandy shale	30	720
Sand	42	762
Lime	433	1,195
Broken sand and red bed	45	1,240
Sand	30	1,270
Broken sand and red bed	20	1,290
Red bed	25	1,315
Sandy red bed	20	1,335
Red bed	45	1,380
Sandy red bed	15	1,395
Sand	115	1,510
Yellow shale	8	1,518

Well PX-32-54-101

Owner: Wallis Simpson
Driller: C. M. Stoner Drilling Co.

White rock	410	410
Sandy shale	20	430
Sandy	20	450
Sandy shale	10	460
Sand	45	505
Lime rock	425	930
Sand	20	950
Shale	20	970
Sand	60	1,030
Red bed	60	1,090
Broken sand and red bed	15	1,105
Sand	90	1,195
Mixed shales	20	1,215

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

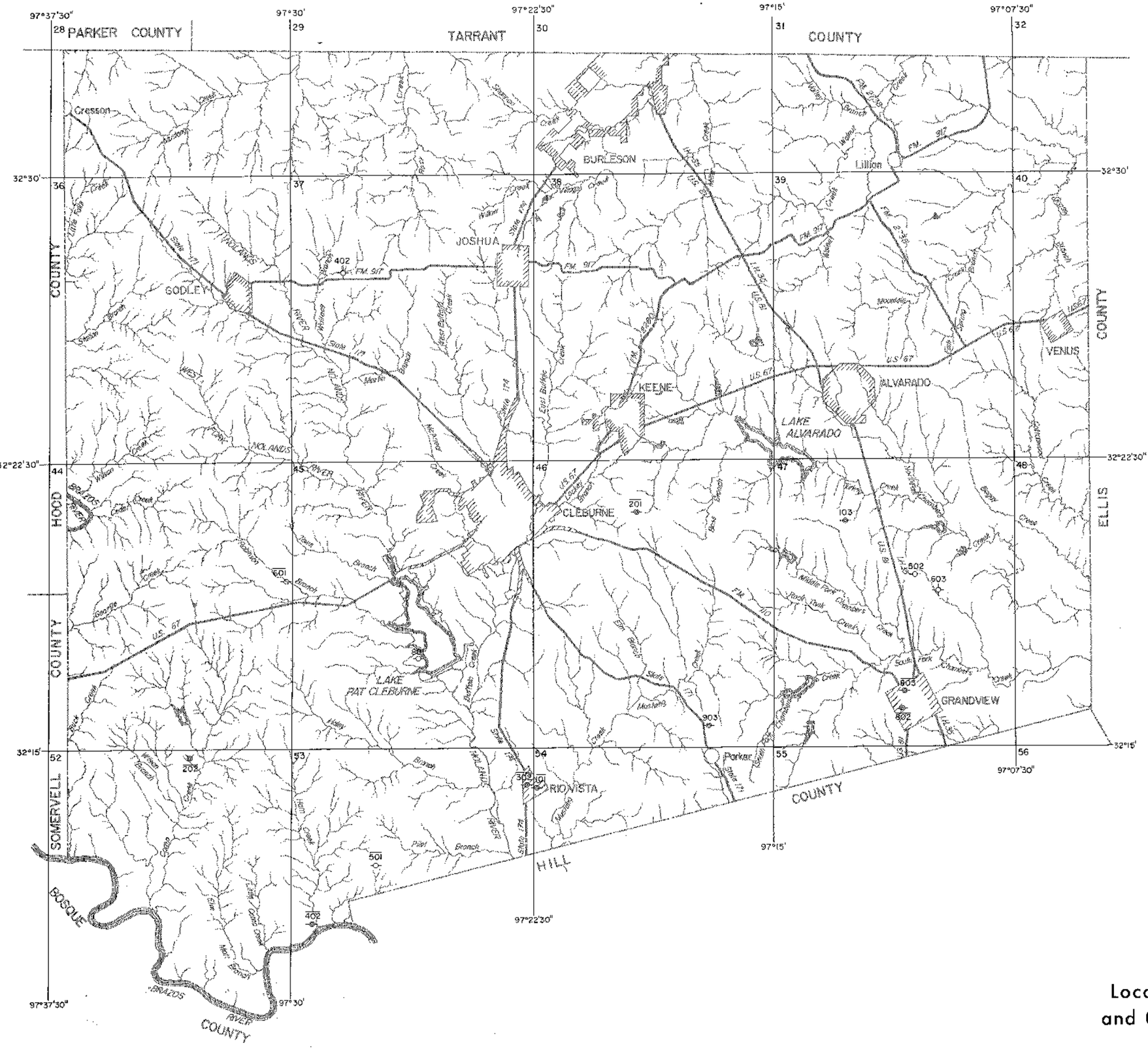
Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
1/ FX-32-44-601	405	July 20, 1966	Kp	10	--	0.6	0.4	184	0.8	430	28	9.8	0.5	0.2	--	451	--	3	99	752	8.3	47.1
2/ 46-201	1,518	Nov. 29, 1966	Kho	13	0.11	2.5	.6	240	1.4	432	129	32	1.3	.2	--	632	--	8	98	--	8.0	37.3
2/ 47-802	852	Aug. 30, 1966	Kp	--	--	--	--	--	--	--	251	39	--	--	--	--	--	14	--	1,700	8.3	--
2/ 803	214	Mar. 7, 1949	Kwb	--	.02	--	--	--	--	--	249	57	--	--	--	--	--	264	--	1,080	7.25	--
1/ 52-202	926	July 20, 1966	Kho	11	--	1.5	.6	195	1.2	400	63	24	.4	.0	--	497	--	6	98	828	8.3	35.3
1/ 53-302	510	Apr. 19, 1961	Kp	12	.02	1.5	.4	268	1.5	502	79	44	2.2	.0	1.0	676	657	5	99	1,110	8.5	53.0
402	550	Mar. 16, 1965	Khe	--	.36	6	2	298	--	540	36	66	4.8	< .4	--	1,010	679	24	97	1,338	8.5	27.0
1/ 501	425	Aug. 23, 1966	Kp	--	--	--	--	--	--	484	50	21	--	--	--	590	--	6	--	970	8.6	--
54-101	1,215	Dec. 7, 1965	Kho	--	.12	2	1	224	--	365	118	37	.5	.5	--	760	562	9	98	1,000	8.7	32.5
1/ 101	1,215	Aug. 17, 1966	do.	12	.6	2	.5	224	10	400	107	37	.4	.0	0.29	581	592	7	96	954	8.1	37.5

LABORATORY CONDUCTING ANALYSIS:

1/ U.S. Geological Survey Laboratory
2/ Laboratory Unknown



EXPLANATION

- Public supply well
- Industrial well
- Irrigation well
- Domestic or livestock well
- Oil or gas well
- Unused or abandoned well
- Solid circle indicates flowing well
- 501 Line above well number indicates chemical analysis given in Table 5

0 1 2 3 4 5 MILES

Location of Selected Water, Oil, and Gas Wells in Johnson County

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	RW-40-57-401	Jackie Hyman	Gus Barrington Drilling and Pump	1963	110	5	110	Ktp	880	64.0	Jan. 27, 1966	Sub, E	D	Perforated from 86 to 110 ft. 1/
	41-45-501	J. O. Hood	Smart Drilling and Supply	1959	383	5	383	do.	1,610	200	1959	C, E	D, S	Reported yield 20 gpm.
	901	L. W. Hill	do.	1950	305	--	--	do.	1,530	110.20 117.9	Mar. 3, 1966 Mar. 6, 1969	N	N	Well deepened from 229 to 305 ft. Texas Water Development Board observation well. 3/
	902	T. E. Winters	do.	1959	318	5	318	do.	1,480	215 155.6	Mar. 10, 1959 Mar. 6, 1969	C, W	D, S	Reported yield 5 gpm. Texas Water Development Board observation well. 1/ 3/
	903	L. W. Hill	--	--	91	36	--	Kp, Kgr	1,460	3	Apr. 10, 1961	C, W	D, S	Dug well with rock wall.
*	47-401	Murray Guthrie	Smart Drilling and Supply	1962	414	7 5	29 414	Ktp	1,265	--	--	Sub, E 1-1/2	D	Well deepened from 114 to 414 ft. Perforated from 374 to 414 ft. Pump set at 320 ft. Reported yield 20 gpm. Temp. 71°F.
	402	do.	do.	1965	340	7 5	29 340	do.	1,265	--	--	Sub, E 1-1/2	D	Well deepened from 301 to 340 ft. Perforated from 240 to 340 ft. Reported yield 15 gpm. Cemented from 29 ft to surface.
*	601	Barney Borma	do.	1962	290	6	347	do.	1,240	--	--	Sub, E 1	D, S	Open hole completion from 347 to 390 ft. Pump set at 315 ft. Reported yield 20 gpm. Temp. 73°F.
	602	do.	do.	--	310	4	310	do.	1,240	250 217.0	-- Mar. 4, 1966	N	N	Reported yield 5 gpm.
	701	Vanoy Green	do.	1964	230	5 4	40 230	do.	1,120	40.00	Jan. 6, 1969	J, E 1/2	D, S	Well deepened from 78 to 230 ft. Reported yield 5 gpm.
*	48-503	Elmer Chambers	Fowler Drilling Co.	1965	450	7	417	do.	1,240	290 290.15	May 24, 1965 Oct. 8, 1968	Sub, E 1-1/2	D, S	Open hole completion from 417 to 450 ft. Pump set at 387 ft. Reported yield 10 gpm. Temp. 72°F. 1/
	53-104	-- Kirby	--	--	66	6	--	Ktp	1,393	20	Apr. 12, 1961	C, E	S	
	202	do.	--	--	57	6	--	do.	1,400	51 51.68	Apr. 12, 1961 Mar. 6, 1969	C, W	S	Texas Water Development Board observation well. 3/
*	301	City of Lometa	-- Cass	1925	600	10 6 5	-- 600 600	Ktp, P	1,550	360	Jan. 18, 1945	C, E 5	P	Reported yield 17 gpm. 1/
*	302	do.	Ross Smart	1940	300	6	234	Ktp	1,480	200	Jan. 18, 1946	C, E 3	P	Perforated from 210 to 234 ft. Reported yield 7 gpm.
*	303	do.	do.	1940	302	6	234	do.	1,480	200	do.	C, E	P	Do.
*	304	do.	J. L. Myers Sons	1949	675	10 8 6	24 478 675	P	1,510	--	--	C, E	P	Perforated from 478 to 675 ft. Reported yield 17 gpm. 1/

See footnote at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
*	KW-41-53-305	City of Lometa	Ollie Vernon Clary	1951	285	--	268	Ktp	1,510	220	Mar. 1951	C, E	P	Perforated from 220 to 268 ft. Reported yield 16 gpm. 1/
*	306	do.	do.	1951	276	8	276	do.	1,510	220	do.	C, E	P	Perforated from 216 to 276 ft. Reported yield 10 gpm. 1/
	307	do.	Smart Drilling and Supply	1953	335	7 6	12 330	do.	1,465	--	--	N	N	
	308	do.	do.	1953	335	6	--	do.	1,465	--	--	N	N	
	309	do.	do.	1953	335	7 6	12 307	do.	1,465	165.51 164.23	Feb. 17, 1966 Mar. 6, 1969	N	N	Open hole completion from 307 to 335 ft. Texas Water Development Board observation well. 3/
*	310	do.	--	1952	--	6	--	do.	1,490	--	--	J, E	P	
*	311	do.	--	1952	--	6	--	do.	1,490	--	--	J, E	P	
	312	do.	Ollie Vernon Clary	1960	360	8 6	26 360	do.	1,510	260	Sept. 1960	C, E	P	Pumping level 290 ft at 16 gpm. 1/
*	313	do.	Tom Grozier	1947	276	8	271	do.	1,510	206	Apr. 1947	N	N	Slotted from 219 to 271 ft. Pumping level 241 ft at 12 gpm in Apr. 1947. 1/
	315	do.	Marcus McLean	1918	250	6	--	do.	1,510	210	Jan. 1946	C, E 2	N	
	316	do.	do.	1918	250	6	--	do.	1,510	210	do.	C	N	
	317	do.	Ollie Vernon Clary	1963	435	8 6	32 435	do.	1,480	180	Jan. 31, 1963	N	N	Pumping level 255 ft at 18 gpm. on Jan. 31, 1963. Cemented from 32 ft to surface. Plugged and abandoned. 1/
*	318	do.	do.	1964	386	8 5	40 --	Ktp	1,475	--	--	Sub, E	P	Estimated yield 15 gpm. Cemented from 40 ft to surface. Temp. 84°F. 1/
	319	do.	do.	1964	384	8 5	17 384	do.	1,515	231.10 238.98	Feb. 17, 1966 Mar. 6, 1969	Sub, E	P	Reported yield 10 gpm. Cemented from 17 ft to surface. Texas Water Development Board observation well. 1/ 2/ 3/
	320	do.	do.	1965	326	8 5	37 300	do.	1,450	--	--	Sub, E	P	Open hole completion from 300 to 326 ft. Reported yield 15 gpm. Cemented from 37 ft to surface. 1/
	321	do.	J. L. Myers Sons	1949	406	--	--	do.	1,490	--	--	--	N	1/
	322	do.	Smart Drilling and Supply	1968	350	7 5	48 350	do.	1,475	175	Feb. 12, 1968	--	P	Reported yield 7 gpm. 1/
	501	R. L. Oliver	Ross Smart	--	110	7	110	do.	1,340	50	--	C, E	D, S	Reported yield 6 gpm.
	502	do.	--	--	--	5	--	do.	1,320	14 14.43	Apr. 7, 1961 Feb. 11, 1966	C, W	S	
*	503	Tom Richey	--	--	109	6	--	do.	1,360	81.05 83.70	Feb. 11, 1966 Mar. 6, 1969	C, E	D, S	Texas Water Development Board observation well. 3/
	54-401	T. R. Gholson	Smart Drilling and Supply	1967	290	7 5	30 290	do.	1,480	175.59 180.20	June 6, 1968 Jan. 6, 1969	Sub, E 1	D, S	Completed from 210 to 290 ft. Pump set at 270 ft. Reported yield 10 gpm. Cemented from 30 ft to surface.
*	601	Don Tombaugh	do.	1955	200	5	200	do.	1,290	70	1955	Sub, E	D, S	Perforated from 113 to 130, 160 to 170, and 173 to 200 ft. Reported yield 4.5 gpm. 1/
	702	Robert Guyler	do.	1967	262	--	--	do.	1,480	--	--	--	S	1/ 2/
	801	Mrs. Dorothy Campbell	do.	--	311	6	311	do.	1,465	173.8 175.2	Feb. 4, 1966 Mar. 6, 1969	C, E 1	D, S	Slotted. Reported yield 5 gpm. Texas Water Development Board observation well. 3/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	RW-41-54-802	J. L. Frazier	Smart Drilling and Supply	--	312	6	311	Ktp	1,465	--	--	C, W	D, S	
*	55-802	Warren Sultemeir	do.	1967	300	6 5	40 300	do.	1,255	--	--	Sub, E 1	D, S	Completed from 270 to 300 ft. Pump set at 273 ft. Reported yield 7 gpm. Temp. 71°F.
*	56-101	Mrs. R. Knox	--	1960	305	10	305	do.	985	50 49.85	Feb. 8, 1961 Mar. 7, 1969	T, E	Irr	Slotted from 250 to 305 ft. Reported yield 34 gpm. Temp. 81°F. Texas Water Development Board observation well. 3/
	102	do.	--	--	208	6	--	do.	985	18	Feb. 8, 1961	C, E	D, S	Reported yield 1 gpm.
*	61-601	Darby Wright	Smart Drilling and Supply	1955	45	6	25	do.	1,405	18 16.83	Dec. 31, 1955 Mar. 6, 1969	J, E 4	D, S	Reported yield 20 gpm. Texas Water Development Board observation well. 1/ 3/
	62-101	Gather Patterson	--	--	300	6	--	do.	1,530	163.41 166.43	Feb. 11, 1966 Mar. 6, 1969	C, W	N	Reported yield 1 gpm. Texas Water Development Board observation well. 3/
	201	Willey Smith	Smart Drilling and Supply	1952	170	5	170	do.	1,330	--	--	C, W	S	Reported yield 4 gpm.
	901	Jack Walker	do.	1959	345	5	344	P	1,185	60	Nov. 24, 1952	C, E	D, S	Well deepened from 152 to 345 ft. Pump set at 246 ft. Reported yield 5 gpm.
*	902	do.	do.	1950	200	6	--	do.	1,185	23 66.62 84.42	Apr. 7, 1961 Feb. 10, 1966 Apr. 20, 1967	C, W	D, S	Reported yield 5 gpm. Temp. 87°F.
	63-302	Mrs. Ruby Kasher	--	1860	15	36	--	Ktp	1,010	3.20 5.3	Feb. 2, 1966 Mar. 7, 1969	C, W	S	Dug well with rock wall. Reported yield 5 gpm. Texas Water Development Board observation well. 3/
	303	-- Lilley	Harrison Well Service	1956	100	6	10	do.	1,040	20 40.1	1956 Mar. 7, 1969	C, W	S	Open hole completion. Reported yield 5 gpm. Texas Water Development Board observation well. 3/
	506	Kaston Hodge	Smart Drilling and Supply	1968	118	7 5	24 118	do.	1,080	40 40.7	Mar. 28, 1968 June 7, 1968	--	D	Reported yield 3 gpm. Cemented from 24 ft to surface. 1/
	603	C. Winn	--	--	20	--		do.	980	--	--	C, W	S	Dug well.
*	604	Fred West	--	--	49	36	--	do.	985	16	Feb. 9, 1961	N	N	Dug well. Plugged and abandoned.
	605	do.	--	--	33	60 36	-- --	do.	985	19	do.	N	N	Dug well with rock wall. Plugged and abandoned.
*	607	Noyes Estate	--	1860	--	36	--	do.	980	23.41 23.9	Feb. 2, 1966 Mar. 7, 1969	N	N	Dug well with rock wall. Temp. 80°F. Texas Water Development Board observation well. 3/
	608	-- Lilley	Harrison Well Service	1965	156	6	156	P	1,020	71	Nov. 1965	C, E	S	Slotted from 126 to 156 ft. Reported yield 10 gpm.
	64-401	J. B. Capps	Joe Allen	1962	60	6	32	Ktp	980	48 41.25	July 1962 Feb. 3, 1966	J, E 1/2	N	Open hole completion from 32 to 60 ft. Reported yield 6 gpm.
*	601	A. B. Miller	Bill Wester	1910	81	7	10	do.	930	67	1910	C, E	D, S	Pump set at 78 ft.
*	602	A. M. Pickett	Harrison Well Service	1950	76	6	30	do.	875	40	1950	J, E 1/2	D	Open hole completion from 30 to 76 ft. Pump set at 65 ft. Estimated yield 10 gpm. Temp. 80°F.
	603	R. L. Patterson	Smart Drilling and Supply	1959	102	7	19	do.	870	70	Aug. 1959	J, E	D, S	Reported yield 1.5 gpm.
*	604	-- Alspaugh	Allens Drilling Co.	1963	70	9	70	do.	870	42 35.65	Aug. 1963 Mar. 7, 1969	T, E	Irr	Slotted from 50 to 70 ft. Pumping level 46 ft at 160 gpm. Reported yield 120 gpm. Temp. 80°F. Texas Water Development Board observation well. 3/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* RW-41-64-605	C. L. Patterson	Fowler Drilling Co.	1964	102	6	40	Kcp	870	60	Aug. 21, 1964	Sub, E	P	Open hole completion from 40 to 102 ft. Estimated yield 25 gpm. Temp. 80°F. 1/
802	--	--	--	--	--	--	do.	1,000	47.23	Feb. 3, 1966	T, E	N	

* For chemical analyses of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For water-level measurements, see Table 4.

LAMPASAS COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; R, Radioactive; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
RW-41-53-105	Sunshine Oil Co.	Mrs. Addie Morgan No. 1	1928	896	1,330	D
201	Western Lampasas Bisbee Oil Co.	Lula Whittenburg No. 1	Before 1918	4,180	1,450	D
55-401	Resser and Pendleton, Inc.	W. H. Bunch No. 1	1927	3,006	1,250	D
63-101	Jones	Jones Oil Test No. 1	—	2,000	1,140	R
64-606	Claud B. Hamill	H. G. Glover No. 1	1949	1,553	900	S
701	Robert L. Guyler	Patterson No. 1	—	335	1,000	R

Table 3.—Drillers' Logs of Selected Wells

Well RW-40-57-401

Owner: Jackie Hyman
Driller: Gus Barrington Drilling and Pump

	THICKNESS (FEET)	DEPTH (FEET)
Surface	2	2
Hard rock	6	8
Caliche and rock	14	22
Hard rock	6	28
Lime and shale	27	55
Blue shale and lime	35	90
Hard, white rock	7	97
Water sand (10 gpm +)	10	107
Hard, gray rock	3	110

Well RW-41-45-902

Owner: T. E. Winters
Driller: Smart Drilling and Supply

	THICKNESS (FEET)	DEPTH (FEET)
Yellow clay and rock	30	30
Blue and gray shale	27	57
Pink and purple, soft	8	65
Light pink lime	10	75
Light gray	5	80
Gray lime	45	125
Green, sandy, gummy	2	127
Green, sandy, gummy	3	130
Soft, gray lime	20	150
Hard rock	15	165
Brown rock	11	176
Soft, brown rock	4	180
Brown, mix rock	18	198
Rock, soft	3	201
Softer tan, brown, may cave	9	210
Rock, tan	20	230
Flint and other color rock	15	245
Rock, softer	5	250
Hard, flint rock	28	278
Softer rock, red	12	290
Red rock	13	303
Water gravel, rose 100 ft.	5	308
Red rock	2	310
No record	7	317
Rock	1	318

Well RW-41-48-503

Owner: Elmer Chambers
Driller: Fowler Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Cavy mud and fine sand	415	415
Limestone and water sand	35	450

Well RW-41-53-105

Owner: Mrs. Adolie Morgan
Driller: Sunshine Oil Co.

	THICKNESS (FEET)	DEPTH (FEET)
Yellow clay	32	32
Gravel	3	35
Blue shale	82	117
Gray lime	3	120
Blue shale	30	150
Sandy shale	20	170
Blue shale	20	190
Sandy shale	15	205
Blue shale	73	278
Gray lime	5	283
Sandy shale	35	318
Water sand, 2 bph	63	381
Blue shale	36	417
White lime	143	560
Blue lime	40	600
Black slate	4	604
Blue lime	6	610
Blue shale	4	614
White lime	76	690
Blue lime	45	735
Black slate	3	738
White lime	57	795
Black slate	93	888
Ellenburger lime, white	8	896

Table 3.—Drillers' Logs of Selected Wells in Lampasas County—Continued

Well RW-41-53-201

Owner: Lula Whittenburg
Driller: Western Lampasas Bisbee Oil Co.
(Partial log)

	THICKNESS (FEET)	DEPTH (FEET)
Soil	6	6
Chalk, lime	54	60
Red sand	25	85
Little water	25	110
Yellow gravel	40	150
Brown shale	30	180
White shale	20	200
Gravel, water	8	208
Blue shale	112	320
Blue, sandy shale	18	338
Blue shale	2	340
Blue, sandy shale	30	370
White lime	164	534

Well RW-41-53-301

Owner: City of Lometa
Driller: — Cass

Soft, white rock	80	80
Gray shale	20	100
Austin chalk	100	200
Red clay	8	208
Gray slate	30	238
Light brown clay	15	253
Soft, porous, red rock	18	271
Red sand, gravel, hard	26	297
Gravel	80	377
Hard, brown sand rock	40	417
Hard sand	80	497
No record	64	561
No record	39	600

Well RW-41-53-303

Owner: City of Lometa
Driller: Ross Smart

Clay	30	30
Blue shale and soft limestone	25	55
Tight, water sand (2 bpd)	5	60

Well RW-41-53-303—Continued

Blue shale and soft limestone	25	85
Red rock	125	210
Water sand (6 gpm)	8	218
Red rock	52	270
Red bed	10	280
Red rock	7	287
Water sand	15	302

Well RW-41-53-304

Owner: City of Lometa
Driller: J. L. Myers Sons

Surface soil	2	2
Clay and shell	9	11
Rock and clay	16	27
Sand and gravel	6	33
Rock	5	38
Sandy lime and shale	14	52
Rock and shale	18	70
Rock	2	72
Sandy shale	18	90
Shale	12	102
Lime rock	7	109
Shale and rock	71	180
Lime rock	19	199
Sand rock	9	208
Water sand	5	213
Shale	10	223
Sand rock	14	237
Sandy lime	40	277
Sandy lime	5	282
Sandy shale	3	285
Lime and shale	32	317
Gravel and rock	8	325
Rock, gravel, and sand	37	362
Rock	3	365
Sandy shale	14	379
Sand rock	21	400
Rock	5	405

Table 3.—Drillers' Logs of Selected Wells in Lampasas County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well RW-41-53-304—Continued		
Shale	20	425
Lime and shale	11	436
Rock	4	440
Sandy lime	2	442
Shale and rock	37	479
Rock	16	495
Sandy shale	50	545
Sand rock	7	552
Sand	23	575
Sandy lime	5	580
Shale	15	595
Sandy lime and shale	44	639
Shale	9	648
Lime and shale	27	675
Well RW-41-53-305		
Owner: City of Lometa Driller: Ollie Vernon Clary		
Surface soil	1	1
Clay and caliche	19	20
Clay and gravel	9	29
Brown lime rock	5	34
Brown shale	8	42
Gray shale	50	92
Red shale	9	101
Gray shale	31	132
Blue shale	16	148
Gray shale	45	193
Gray sand and shale	34	227
Red shale and sand	30	257
Sand and gravel	13	270
Red bed	15	285
Well RW-41-53-306		
Owner: City of Lometa Driller: Ollie Vernon Clary		
Surface soil	1	1
Yellow clay	20	21
Clay and gravel	9	30
Brown shale and lime	12	42

	THICKNESS (FEET)	DEPTH (FEET)
Well RW-41-53-306—Continued		
Gray shale	49	91
Red shale	6	97
Gray shale	37	134
Blue shale	3	137
Gray shale	58	195
Gray sand and shale	55	250
Gray sand	15	265
Red sand	3	268
Red bed	8	276
Well RW-41-53-312		
Owner: City of Lometa Driller: Ollie Vernon Clary		
Surface soil	1	1
Clay	6	7
Sand rock	2	9
Caliche and gravel	16	25
Blue shale	25	50
Gray shale	40	90
Brown shale	10	100
Blue and gray shale	120	220
Brown sand rock	20	240
Sand (10 gpm)	5	245
Yellow lime rock - hard	10	255
Sand - more water	2	257
Brown sand rock	83	340
Sand and gravel - water	5	345
Brown sand rock	15	360
Well RW-41-53-313		
Owner: City of Lometa Driller: Tom Grozier		
Caliche and clay	45	45
Chalky lime	15	60
Blue shale	10	70
Sandy shale	5	75
Red bed	20	95
Blue shale	50	145
Gray shale	50	195
Sand	50	245

Table 3.—Drillers' Logs of Selected Wells in Lampasas County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well RW-41-53-313—Continued		
Cave	2	247
Coarse sand	29	276
Well RW-41-53-317		
Owner: City of Lometa Driller: Ollie Vernon Clary		
Surface soil	1	1
Gray lime rock	17	18
Blue shale	13	31
Gray lime	9	40
Gray shale	18	58
Red bed	25	65
Gray shale and sandy shale	75	140
Sand (1/2 gpm)	2	142
Gray, sandy shale	38	180
Sand (1 gpm)	3	183
Brown sand rock	68	251
Brown clay and gravel	11	262
Sand (14 gpm)	2	264
Gray sand rock	72	336
Yellow lime rock	4	340
Sand and sand rock - more water	30	370
Blue shale	10	380
Gray lime rock	20	400
Sand - more water	4	404
Blue shale	12	416
Gray lime rock	16	432
Blue shale	3	435
Well RW-41-53-318		
Owner: City of Lometa Driller: Ollie Vernon Clary		
Surface soil	2	2
Caliche and clay	15	17
Gray lime rock	13	30
Blue and gray shale	18	48
Gray shale and sand rock	67	115
Brown sand rock	15	130
Gray, sandy shale	87	217
Brown sand rock and shale	37	254
Brown sand and water (3 gpm)	3	257
Brown sand rock	29	286
Gray sand - more water	6	292
Hard, yellow lime rock	24	316
Gray lime rock and shale	68	384
Black shale	2	386
Well RW-41-53-319		
Owner: City of Lometa Driller: Ollie Vernon Clary		
Surface soil	2	2
Caliche and clay	15	17
Lime rock	13	30
Gray and blue shale	18	48
Gray shale and sand rock	67	115
Brown, sandy shale	15	130
Gray, sandy shale	87	217
Brown sand rock and shale	37	254
Brown sand - water	3	257
Brown sand rock	31	288
Sand - more water	2	290
Yellow lime	26	316
Gray lime rock and sandy shale	68	384
Well RW-41-53-320		
Owner: City of Lometa Driller: Ollie Vernon Clary		
Surface soil	1	1
Lime rock	2	3
Clay	5	8
Caliche	24	32
Sand rock	28	60
Gray, sandy shale	17	77
Blue shale	63	140
Gray sand rock	20	160
Brown sand - water	4	164
Brown sand rock	16	180
Gray sand - water	2	182
Gray lime rock - hard	51	233
Red bed	2	235

Table 3.—Drillers' Logs of Selected Wells in Lampasas County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well RW-41-53-320—Continued		
Yellow lime - hard	43	278
Gray sand - water	4	282
Yellow lime - hard	44	326

Well RW-41-53-321

Owner: City of Lometa
Driller: J. L. Myers Sons

No record	273	273
Sand rock	7	280
Sandy lime	9	289
Sand and gravel	2	291
Red mix, shale	5	296
Lime, shale, rock	11	307
Shale	9	316
Rock and shale	15	331
Rock	27	358
Yellow clay and shale mix	12	370
Shale	7	377
Rock	9	386
Yellow clay	4	390
Sandy shale	16	406

Well RW-41-53-322

Owner: City of Lometa
Driller: Smart Drilling and Supply

Black topsoil	3	3
Clay and gravel	9	12
Yellow clay and rock	21	33
Gray shale	28	61
Pink clay	9	70
Yellow rock	8	78
Light gray rock - gummy	25	103
Gray shale	37	140
Gray shale and fine shale	18	158
Sandy rock	14	172
Tan and orange clay	28	200
Tan rock	45	245
Red clay rock	30	275
Sand rock	40	315
Red, sandy rock	25	340
Black shale	10	350

Well RW-41-54-601

Owner: Don Tombaugh
Driller: Smart Drilling and Supply

Blue and gray shale	70	70
Soft blue	20	90
Yellow sand rock	20	110
Tan sand rock	16	126
Crisp sand rock, some purple	6	132
Crisp lime rock	22	154
Brown rock	4	158
Gummy, brown, cavey	3	161
Rock	.5	161.5
Water sand, good brown	3.5	165
White, soft, lime rock	15	180
Soft, brown clay	5	185
Rock, little hard	13	198
Rock	2	200

Well RW-41-54-702

Owner: Robert Guyler
Driller: Smart Drilling and Supply

Clay and rock - yellow	30	30
Soft chalk - pink	7	37
Shale - light gray - firm	23	60
Light gray shale - soft	15	85
Firm, gray shale	2	87
Soft, gray shale	20	107
Tan sand and sandstone, firm to soft 146 to 190 ft, lots of flint - some clay	91	198
Soft, brown clay (some flint)	37	235
Soft, dark gray shale	15	250
Soft, dark grayish blue shale	12	262

Table 3.—Drillers' Logs of Selected Wells in Lampasas County—Continued

Well RW-41-55-401

Owner: W. H. Bunch
Driller: Resser and Pendleton, Inc.
(Partial log)

	THICKNESS (FEET)	DEPTH (FEET)
Surface	7	7
Yellow clay	18	25
White shale	50	75
Blue shale	20	95
Purple shale	10	105
Lime	5	110
Blue shale	25	135
Lime	5	140
Blue shale, lime	15	155
Lime	20	175
Red rock	10	185
Sandy lime	40	225
Gravel (5 bph)	10	235
Lime	20	255
Red rock	15	270
Lime	15	285
Red rock	35	320
Blue shale	60	380
Black shale	90	470

Well RW-41-61-601

Owner: Darby Wright
Driller: Smart Drilling and Supply

	THICKNESS (FEET)	DEPTH (FEET)
Silt	20	20
Creek gravel	25	45

Well RW-41-63-506

Owner: Kaston Hodge
Driller: Smart Drilling and Supply
(Partial log)

	THICKNESS (FEET)	DEPTH (FEET)
Clay	12	12
Yellow sand rock	19	31
Red rock	14	45
Red bed	10	55
Red bed and gravel	10	65
Red bed, clay, and sand	7	72
Brown rock (hard)	4	76
Red bed and gravel	9	85

Well RW-41-64-605

Owner: C. L. Patterson
Driller: Fowler Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Sand	24	24
Gray limestone	78	102

LAMPASAS COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

Well RW-41-45-901

Owner: L. W. Hill

DATE	WATER LEVEL
Mar. 3, 1966	110.20
Apr. 19, 1967	119.87
Mar. 6, 1969	117.9

Well RW-41-45-902

Owner: T. E. Winters

DATE	WATER LEVEL
Mar. 10, 1959	215
Mar. 3, 1966	92.5
Mar. 6, 1969	155.6

Well RW-41-53-202

Owner: — Kirby

DATE	WATER LEVEL
Apr. 12, 1961	51
Mar. 3, 1966	52.32
Apr. 19, 1967	52.65
Mar. 26, 1968	52.30
Mar. 6, 1969	51.68

Well RW-41-53-309

Owner: City of Lometa

DATE	WATER LEVEL
Feb. 17, 1966	165.51
Apr. 19, 1967	168.39
Mar. 26, 1968	161.42
Mar. 6, 1969	164.23

Well RW-41-53-319

Owner: City of Lometa

DATE	WATER LEVEL
Feb. 17, 1966	231.10
Aug. 31, 1966	243.5
Sept. 26, 1966	238.80
Nov. 2, 1966	237.0
Nov. 22, 1966	238.6
Dec. 28, 1966	243.2
Feb. 7, 1967	245.49
Apr. 19, 1967	238.43

Well RW-41-53-319—Continued

DATE	WATER LEVEL
June 5, 1967	246.29
Oct. 5, 1967	245.6
Dec. 6, 1967	242.2
Jan. 15, 1968	241.38
Mar. 6, 1969	238.98

Well RW-41-53-503

Owner: Tom Richey

DATE	WATER LEVEL
Feb. 11, 1966	81.05
Mar. 3, 1966	81.34
Apr. 19, 1967	84.05
Mar. 26, 1968	74.94
Mar. 6, 1969	83.70

Well RW-41-54-801

Owner: Mrs. Dorothy Campbell

DATE	WATER LEVEL
Feb. 4, 1966	173.8
Mar. 3, 1966	161.23
Mar. 6, 1969	175.2

Well RW-41-56-101

Owner: Mrs. R. Knox

DATE	WATER LEVEL
Feb. 8, 1961	50
Feb. 4, 1966	48.28
Mar. 4, 1966	47.97
Sept. 26, 1966	46.70
Nov. 2, 1966	49.67
Nov. 22, 1966	46.58
Dec. 28, 1966	49.18
Feb. 7, 1967	47.20
Apr. 20, 1967	49.07
June 5, 1967	50.68
June 28, 1967	59.07
Sept. 13, 1967	58.81
Oct. 6, 1967	56.08

Well RW-41-56-101—Continued

DATE	WATER LEVEL
Nov. 13, 1967	52.56
Dec. 6, 1967	51.31
Jan. 5, 1968	50.60
Feb. 7, 1968	46.42
Mar. 7, 1969	49.85

Well RW-41-61-601

Owner: Darby Wright

DATE	WATER LEVEL
Dec. 31, 1955	18
Mar. 3, 1966	18.22
Aug. 31, 1966	17.83
Sept. 26, 1966	17.76
Nov. 2, 1966	17.78
Nov. 22, 1966	17.94
Dec. 28, 1966	17.95
Feb. 7, 1967	18.35
Apr. 19, 1967	18.22
June 5, 1967	18.44
June 29, 1967	18.48
Aug. 1, 1967	18.82
Sept. 14, 1967	18.62
Oct. 5, 1967	18.64
Nov. 13, 1967	18.59
Dec. 6, 1967	18.55
Jan. 15, 1968	18.69
Feb. 7, 1968	18.28
Mar. 6, 1969	16.83

Well RW-41-62-101

Owner: Gather Patterson

DATE	WATER LEVEL
Feb. 11, 1966	163.41
Mar. 3, 1966	163.48
Apr. 19, 1967	167.78
Mar. 6, 1969	166.43

Table 4.—Water Levels in Selected Wells in Lampasas County—Continued

Well RW-41-63-302

Owner: Mrs. Ruby Kasber

DATE	WATER LEVEL
Feb. 2, 1966	3.20
Apr. 20, 1967	2.62
Mar. 26, 1968	.02
Mar. 7, 1969	5.3

Well RW-41-63-303

Owner: — Lilley

DATE	WATER LEVEL
1956	20
Feb. 3, 1966	9.26
Mar. 4, 1966	6.75
Apr. 26, 1967	44.61
Mar. 7, 1969	40.1

Well RW-41-63-607

Owner: Noyes Estate

DATE	WATER LEVEL
Feb. 2, 1966	23.41
Mar. 4, 1966	23.03
Aug. 31, 1966	22.50
Sept. 26. 1966	22.36
Nov. 2, 1966	22.05
Nov. 22, 1966	22.10
Dec. 28, 1966	22.37
Feb. 7, 1967	22.47
Apr. 19, 1967	22.73
June 5, 1967	23.00
June 29, 1967	23.42
Aug. 1, 1967	23.56
Sept. 14, 1967	23.73

Well RW-41-63-607—Continued

DATE	WATER LEVEL
Oct. 5, 1967	23.98
Nov. 8, 1967	24.20
Dec. 6, 1967	23.94
Jan. 15, 1968	25.10
Feb. 7, 1968	21.52
Mar. 7, 1969	23.9

Well RW-41-64-604

Owner: — Alspaugh

DATE	WATER LEVEL
Aug. 1963	42
Jan. 27, 1966	33.78
Mar. 7, 1966	33.62
Apr. 20, 1967	34.33
Mar. 26, 1968	32.38
Mar. 7, 1969	35.65

Table 5. -- Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ration)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (Multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (Ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS REPORTED	DISSOLVED SOLIDS RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
RW-41-47-401	414	Sept. 18, 1968	Ktp	12	--	43	29	213	--	410	201	114	1.5	< 0.4	--	820	--	225	67	1,300	7.6	6.1
601	390	do.	do.	13	--	63	38	294	--	382	355	208	1.7	< .4	--	1,160	--	312	67	1 820	7.5	7.2
48-503	450	Oct. 8, 1968	do.	12	0.7	44	35	408	--	364	530	208	2.7	< .4	--	1,420	--	255	78	2,000	8.0	11.2
1/ 53-301	600	Jan. 18, 1946	Kcp, P	7.0	.28	64	50	* 144	--	421	228	62	1	.0	--	754	--	365	46	--	7.7	3.3
301	600	Apr. 24, 1952	do.	10	.7	54	45	* 153	--	403	222	64	1.2	2.7	--	770	751	320	51	--	8.0	3.7
1/ 302	300	Jan. 18, 1946	Ktp	7.0	.39	74	58	* 105	--	396	200	72	1	1.2	--	726	714	423	35	--	7.9	2.2
302	300	Apr. 28, 1952	do.	22	1.1	94	62	* 58	--	372	193	78	0.8	2.2	--	725	694	490	20	--	7.8	1.1
303	302	Apr. 24, 1952	do.	16	1.3	90	65	* 56	--	372	186	82	.8	.4	--	735	681	492	20	--	7.7	1.1
304	660	do.	P	20	1.5	58	45	* 183	--	421	229	103	1	2.7	--	875	851	330	55	--	7.7	4.4
305	285	do.	Ktp	19	1.2	100	70	* 76	--	384	286	64	1	2.7	--	850	809	537	24	--	7.6	1.4
306	276	do.	do.	17	1.7	95	75	* 68	--	378	282	64	1	2.2	--	845	792	546	21	--	7.6	1.3
310	--	do.	do.	9	.1	78	48	* 90	--	256	193	78	1	51	--	700	674	392	33	--	7.9	2.0
311	--	do.	do.	10	.32	79	62	* 99	--	372	271	57	1.2	3.1	--	820	766	452	42	--	8.0	2.5
313	276	do.	do.	17	1.8	91	69	* 90	--	378	304	57	1	2.7	--	868	820	511	28	--	7.9	1.7
318	386	Feb. 17, 1966	do.	12	--	71	59	52	--	353	159	59	1	< .4	--	590	--	422	21	965	7.7	1.1
1/ 503	109	Oct. 31, 1950	do.	12	--	84	38	* 17	--	398	13	30	--	26	--	422	--	366	9	761	7.1	0.4
1/ 54-601	200	Apr. 11, 1961	Ktp	12	--	76	44	* 115	--	398	226	38	.9	4.2	--	712	--	370	40	1,090	7.3	2.6
55-802	300	Sept. 13, 1968	do.	12	--	48	29	285	--	357	311	187	1.7	< .4	--	1,050	--	240	72	1,680	7.6	8.0
56-101	305	Feb. 4, 1966	do.	10	--	49	35	304	--	354	320	216	1.5	1.5	--	1,110	--	266	71	1,810	7.8	8.0
1/ 61-601	45	Apr. 7, 1961	do.	9.1	--	54	96	* 20	--	534	48	54	.9	10	--	555	--	530	8	1,010	7.3	0.4
62-902	200	Feb. 10, 1966	P	10	--	99	43	6	--	472	13	11	.2	17	--	431	--	425	3	752	8.0	.1
1/ 63-604	49	May 15, 1942	Kcp	--	.12	124	53	* 136	--	368	41	304	--	64	--	965	903	528	36	1,680	--	2.6
607	1,860	Feb. 2, 1968	do.	12	--	84	35	9	--	375	21	22	.4	5	--	372	--	352	5	655	7.7	.2

See footnotes at end of table.

Table 5 -- Chemical Analyses of Water From Selected Wells -- Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
1/ RW-41-64-601	81	May 14, 1942	Klp	--	.20	88	66	* 66	--	454	200	38	--	.0	--	705	681	491	23	1,110	--	1.3
602	76	Jan. 27, 1966	do.	5	--	89	52	228	--	356	270	246	1	15	--	1,080	--	436	53	1,550	7.5	4.7
604	70	do.	do.	12	--	89	44	30	--	398	51	39	.4	29	--	490	--	402	14	750	7.5	.6
605	102	Feb. 1, 1966	do.	10	--	127	41	103	--	393	104	132	.7	111	--	820	--	487	32	1,330	7.3	2.0

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

1/ U.S. Geological Survey Laboratory

Location of Selected Water, Oil, and Gas Wells in Lampasas County

EXPLANATION

- Public supply well
- Industrial well
- Irrigation well
- Domestic or livestock well
- Oil or gas well
- Unused or abandoned well
- Solid circle indicates flowing well
- Line above well number indicates chemical analysis given in Table 5

HAMILTON COUNTY
MILLS COUNTY
CORYELL COUNTY
SAN SABA COUNTY
COLORADO RIVER
LAMPASAS RIVER
BELL COUNTY
BURNET COUNTY
LAMPASAS
Adamsville
Kempner
LOMETA
98°30'
98°22'30"
98°15'
98°07'30"
98°00'
31°22'30"
31°15'
31°07'30"
41
40
0 1 2 3 4 5 MILES

LIMESTONE COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Kht, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, Electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* SD-39-18-802	Prairie Hill Water Supply Corp.	J. L. Myers Sons	1963	3,942	10 7	65 3,832	Kgr, Kho	595	88 46.55	Aug. 21, 1963 Feb. 28, 1966	Sub, E 7-1/2	N	Perforated from 3,203 to 3,221 and 3,771 to 3,797. Pumping level 170 ft at 100 gpm on Aug. 21, 1963. Pump set at 230 ft. Cemented from 3,832 ft to surface. 1/

* For chemical analyses of water, see Table 5.
1/ Electric logs in files of the Texas Water Development Board, Austin, Texas.

LIMESTONE COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
SD-39-17-601	Ralph Spence and Bill Hughes	Paul Collins No. 1	1961	3,187	531	E
19-701	Hunt Oil Co.	Union Central Life Insurance Co. No. 1	1948	5,196	550	E
26-503	Balcones Oil Co.	Jackson No. 1	1949	3,542	530	E
601	Farrell Drilling Co.	J. R. Gillam No. 1	—	4,862	521	E
27-101	O. W. Killiam	W. D. Stone No. 1	1954	4,505	527	E
401	M. M. Miller	J. C. Rogers No. 1	1947	6,168	531	E
501	Gulf Oil Corp. and Frank Bryant	Bevill Estate No. 1	1940	5,512	506	E
28-703	Zephyr Oil Co.	Nussbaum and Scharff Inc. No. 1	1944	5,501	491	E
35-802	Lone Star Producing Co.	Billy Criswell No. 1	1951	2,455	450	E
906	Zephyr Oil Co. and W. H. Foster	Myrtle Morris No. 1	1955	5,553	526	E
36-101	McAlester Fuel Co.	Hernstadt, et al. No. 1	1961	6,216	509	E
43-601	E. W. Jarman, et al.	Lola Garrett No. 1	1949	5,567	476	E

LIMESTONE COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated Limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
SD-39-18-802	3,942	Sept. 3, 1964	Kgr, Kho	--	0.06	229	35	850	--	222	2,110	119	2.8	3.5	--	3,576	3,459	720	72	6,273	7.4	13.9

EXPLANATION

- Public supply well
- Industrial well
- Irrigation well
- Domestic or livestock well
- Oil or gas well
- Unused or abandoned well
- Solid circle indicates flowing well
- 501 Line above well number indicates chemical analysis given in Table 5

Location of Selected Water, Oil, and Gas Wells in Limestone County

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kas, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Bensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* ST-39-17-701	Axtell Water Supply Corp.	J. L. Myers Sons	1959	3,129	12 8 5	63 910 3,129	Kho	528	10 97.99	Apr. 1959 Apr. 3, 1969	Sub, E 20	P	Perforated from 2,933 to 3,051 ft. Pump set at 300 ft. Reported yield 131 gpm. Cemented. Texas Water Development Board observation well. 1/ 2/ 4/
* 901	Prairie Hill Water Supply Corp.	do.	1965	3,385	10 7	45 3,375	do.	560	79.79 103.31	Feb. 28, 1966 Apr. 3, 1969	Sub, E	P	Gun perforated with 65 shots 3,146 to 3,180 ft, 25 shots 3,192 to 3,204 ft and 78 shots 3,232 to 3,294 ft. Reported yield 70 gpm. Cemented from 45 ft to surface. Texas Water Development Board observation well. 1/ 2/ 4/
25-101	Mt. Carmel Center	do.	1958	2,775	10 7 5	48 492 2,775	do.	505	209.64 212.33	Aug. 26, 1966 Sept. 30, 1966	Sub, E 3	P	Completed from 2,580 to 2,710 ft. Pump set at 350 ft. Cemented. Texas Water Development Board observation well. 1/ 2/ 4/
102	Elk-Oaklake Water Supply Corp.	do.	1964	2,905	10 7	53 2,894	do.	491	60 117.5	Feb. 12, 1964 Apr. 3, 1969	Sub, E 15	P	Perforated from 2,783 to 2,871 ft. Pump set at 360 ft. Cemented from 2,783 ft to surface. Texas Water Development Board observation well. 1/ 2/ 4/
* 401	Texas Power and Light Co.	Layne Texas Co.	1967	3,035	10 8 6	900 2,529 3,035	do.	458	102	Apr. 10, 1967	--	Ind	Screened from 2,539 to 2,920 ft. Pumping level 304 ft at 320 gpm on Apr. 10, 1967. Cemented 2,529 ft to surface. Temp. 131°F. 1/ 2/
* 501	City of Mart	J. L. Myers Sons	1951	3,181	10 7	610 3,181	do.	493	59.6 55.74	Mar. 9, 1965 Apr. 2, 1969	T, E 100	P	Completed from 3,030 to 3,181 ft. Pumping level 141 ft at 585 gpm on Apr. 28, 1965. Pump set at 350 ft. Reported yield 500 gpm. Temp. 120°F. Texas Water Development Board observation well. 1/ 2/ 4/
* 701	H and K Water Supply Corp.	do.	1960	2,916	10 7	72 2,909	do.	480	10 4	Dec. 14, 1960 Dec. 15, 1960	T, E 10	P	Gun perforated from 2,789 to 2,909 ft. Pumping level 182 ft at 220 gpm on Dec. 14, 1960. Pump set at 205 ft. Cemented from 2,789 ft to surface. 1/ 2/
801	Meier Settlement Water Supply Corp.	Triangle Pump and Supply Co.	1966	3,370	--	--	Kho	520	44.7	Nov. 30, 1966	N	N	Abandoned. 2/
* 33-101	Texas Power and Light Co.	Layne Texas Co.	1951	2,820	12 8 6	820 2,607 2,820	do.	410	+122 9.04 9.65	Dec. 7, 1951 Feb. 16, 1966 Feb. 17, 1966	T, E	Ind	Completed from 2,475 to 2,485, 2,499 to 2,509, 2,515 to 2,525, 2,537 to 2,547, 2,553 to 2,563, 2,574 to 2,584, 2,609 to 2,629, 2,653 to 2,733, 2,736 to 2,776, and 2,788 to 2,808 ft. Pump set at 400 ft. Temp. 123°F. 1/ 2/
102	do.	do.	1952	2,898	12 8 6	833 2,499 2,898	do.	429	+ 96	1952	T, E	Ind	Completed from 2,550 to 2,570, 2,584 to 2,594, 2,605 to 2,615, 2,660 to 2,670, 2,676 to 2,716, 2,725 to 2,745, 2,757 to 2,797, 2,810 to 2,830, and 2,853 to 2,873 ft. Pump set at 400 ft. Reported yield 510 gpm. 2/
* 104	Meier Settlement Water Supply Corp.	J. L. Myers Sons	1967	3,115	7	3,115	do.	460	32 23.75	Feb. 3, 1967 Feb. 7, 1967	Sub, E	P	Perforated from 3,010 to 3,030 and 3,040 to 3,070 ft. Pumping level 90 ft at 100 gpm on Feb. 3, 1967. Cemented from 3,115 ft to surface. 2/

See footnote at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* ST-39-33-201	Riesel School District	J. L. Myers Sons	1949	3,109	12 8 7 6	50 500 1,500 2,917	Kho	510	+	Feb. 23, 1949	T, E 7-1/2	N	Open hole completion from 2,917 to 3,109 ft. Cemented from 2,917 ft to surface. 2/
* 202	Riesel Municipal Utility District	do.	1964	3,531	10 7	52	do.	485	30.00 41.03	Feb. 26, 1964 Apr. 2, 1969	Sub, E 10	P	Gun perforated from 3,390 to 3,455 ft. Pumping level 160 ft at 107 gpm on Feb. 27, 1964. Pump set at 255 ft. Reported yield 100 gpm. Cemented from 3,530 ft to surface. Texas Water Development Board observation well. 2/ 4/
* 40-15-901	Bold Springs Water Supply Corp.	C. M. Stoner Drilling Co.	1965	1,874	14 8 5	23 750 1,874	do.	594	185	Aug. 1965	Sub, E 25	P	Slotted from 1,670 to 1,874 ft. Pump set at 500 ft. Reported yield 300 gpm. Cemented from 1,670 ft to surface. 1/ 2/
* 16-401	City of West	--	1894	2,010	12 9 5	156 1,100 3,682	Ktp	648	30 176.02	1926 Apr. 3, 1969	T, E 25	N	Reported yield 225 gpm. Temp. 104°F. Texas Water Development Board observation well. Abandoned. 4/
* 402	do.	J. L. Myers Sons	1945	2,008	16 10 8 7	15 508 1,865 2,008	Kho	648	136 332.74	Apr. 1949 Apr. 3, 1969	Sub, E 40	P	Perforated from 1,865 to 2,008 ft. Pump set at 500 ft. Reported yield 100 gpm. Cemented from 1865 ft to surface. Texas Water Development Board observation well. 1/ 2/ 4/
* 403	do.	do.	1953	2,088	16 8 6	926 1,863 2,040	do.	645	180 218 218	June 6, 1953 Oct. 1959 Jan. 1960	T, E 100	P	Perforated. Pump set at 630 ft. Reported yield 365 gpm. Cemented from 1,863 ft to surface. 1/ 2/
* 404	do.	Key Water Well Drilling-Development Co.	1968	1,977	30 16 8 6	30 1,010 1,868 1,982	Kho	645	283.0	Apr. 3, 1969	Sub, E 75	P	Screened from 1,870 to 1,977 ft. Pumping level 512 ft at 250 gpm on Jan. 7, 1968. Pump set at 700 ft. Cemented from 1,870 ft to surface. Well drilled to 2,000 ft and plugged back to 1,977 ft. 1/ 2/ 3/
* 501	Cottonwood Water Supply Corp.	West-Tex Tool Serv.	1965	2,350	7	2,350	do.	585	282.65	Feb. 23, 1965	Sub, E	P	Gun perforated with 56 shots 2,278 to 2,306 ft, 13 shots 2,312 to 2,318 ft and 38 shots 2,323 to 2,342 ft. Pumping level 306 ft at 100 gpm on Feb. 25, 1965. Cemented. 3/
* 701	Hilltop Water Supply Corp.	J. L. Myers Sons	1964	2,430	10 7	58 2,430	do.	635	180	July 17, 1964	Sub, E	P	Gun perforated with 37 shots 2,380 to 2,398 ft and 29 shots 2,406 to 2,420 ft. Pump set at 550 ft. Cemented from 58 ft to surface. 1/ 2/
21-901	W. B. Bass and Sons	do.	1956	1,186	5	1,186	do.	685	120	Sept. 28, 1956	T, E 25	D, S	Slotted from 1,094 to 1,186 ft. Pumping level 140 ft at 60 gpm on Sept. 28, 1956. Pump set at 240 ft. Estimated yield 50 gpm. Cemented from 1,186 ft to surface. 2/
902	do.	Harvey Meadows and Son Well Driller	1967	1,200	5	1,200	do.	685	189.65	Nov. 16, 1967	Sub, E	D, S	Slotted from 1,104 to 1,200 ft. Pump set at 300 ft. Reported yield 100 gpm. Cemented from 1,104 ft to surface.
* 22-307	Chelson Water Supply Co.	Ward and Ward Drilling Co.	1967	1,160	12 7 3	65 1,133 1,160	Kae	533	--	--	Sub, E	P	Slotted from 1,110 to 1,160 ft. Cemented from 1,133 ft to surface. Well drilled to 1,180 ft and plugged back to 1,160 ft. 1/ 2/
* 308	Lacy Feed Co.	Harvey Meadows and Son Well Driller	1959	1,127	6 4	400 1,127	do.	525	180	1966	Sub, E 5	S	Slotted from 1,080 to 1,127 ft. Pump set at 390 ft. Reported yield 50 gpm. Cemented from 1,127 ft to surface. 1/
501	S. F. Foster	do.	1958	1,076	--	--	do.	615	100 190.0	Sept. 1958 Nov. 16, 1967	D, E	S	2/
* 802	S. M. Talbert	-- Peterson	1917	1,400	6 5	1,300 1,400	Kho	597	41 124	Jan. 7, 1943 1962	N	N	Screened from 1,300 to 1,400 ft.

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* ST-40-22-307	S. M. Talbert	Harvey Meadows and Son Well Driller	1959	1,150	6 4	450 1,150	Khe	595	208.27 193.26	Mar. 30, 1966 Apr. 10, 1969	Sub, E 5	D, S P	Completed from 1,085 to 1,150 ft. Pump set at 300 ft. Texas Water Development Board observation well. Well supplies China Springs, Texas. 4/
805	China Springs Community Water Co.	Frank Baker Place	1961	1,100	--	--	do.	625	--	--	Sub, E	P	Pump set at 180 ft. Reported yield 35 gpm. Cemented from 1,100 ft to surface.
806	do.	--	1960	1,100	--	--	do.	625	--	--	Sub, E	P	Reported yield 35 gpm. Cemented from 1,100 ft to surface.
807	Nabrena Drug Co. Employees' Club	Harvey Meadows and Son Well Driller	1962	1,010	7 4	410 1,010	do.	555	115	Mar. 1, 1962	Sub, E 2	P	Slotted from 955 to 1,010 ft. Cemented from 955 ft to surface. 1/
808	-- Demeron	do.	1958	1,020	--	--	do.	595	--	--	--	D, S	2/
901	M. M. Boyd	do.	1958	1,134	--	--	do.	560	135	Sept. 1958	--	D, S	2/
902	D. E. Moore	do.	1965	1,200	8 4	45 1,090	do.	562	160	Apr. 7, 1965	Sub, E 1-1/2	D	Perforated. Pump set at 315 ft. Cemented from 1,070 ft to surface. 1/ 2/
903	Highpoint Water Supply Coop.	do.	1959	--	--	--	Ktp	560	--	--	Sub, E 5	P	
904	Harold McFarren	do.	1959	1,150	6 4	400 1,150	Khe	540	30	1956	Sub, E 2	P	Pump set at 250 ft. Cemented from 1,150 ft to surface. Well supplies Erath, Texas.
23-103	Rozell Quillian	Frank Baker Place	1958	1,145	--	--	do.	435	20 + 14 0 + 1	1958 Mar. 1964 Sept. 1964 Nov. 1964	Flows	D	2/
* 705	Valley View Water Co.	Harvey Meadows and Son Well Driller	1956	1,180	4	1,180	do.	522	80 80 90	1956 1960 1962	Sub, E 3	P	Perforated from 1,160 to 1,180 ft. Pump set at 380 ft. Reported yield 24 gpm. Cemented from 1,160 ft to surface.
* 903	Chalk Bluff Water Supply Corp.	H. B. Glass	1958	2,114	8 5	614 2,114	Kho	505	198	Sept. 1958	T, E 7-1/2	P	Slotted from 1,914 to 2,114 ft. Pump set at 255 ft. Reported yield 75 gpm. 2/
* 24-102	Ross Water Supply Corp.	do.	1959	2,269	8 5	800 2,265	do.	568	211	Nov. 12, 1959	T, E	P	Completed from 2,110 to 2,265 ft. Pumping level 400 ft at 135 gpm on Jan. 9, 1965. Pump set at 400 ft. Reported yield 155 gpm. 1/ 2/ 3/
* 301	Leroy-Tours-Gerald Water Supply Corp.	Layne Texas Co.	1958	2,863	8 5	903 2,863	do.	495	+ 65.46	1958 Mar. 21, 1968	Sub, E 10	P	Completed from 2,653 to 2,863 ft. Pump set at 140 ft. Reported yield 240 gpm. Texas Water Development Board observation well. 1/ 2/ 4/
* 401	McLennan County WCID No. 2	J. L. Myers Sons	1946	2,270	8 5	600 2,270	do.	533	175 260 287 301.00	Dec. 16, 1960 Dec. 3, 1962 Mar. 7, 1964 Oct. 21, 1964	Sub, E 35	P	Completed from 2,100 to 2,270 ft. Pump set at 470 ft. Reported yield 200 gpm. 1/ 2/
* 501	Pure Water Supply Corp.	C. M. Stoner Drilling Co.	1967	2,414	7	2,414	do.	483	99.7	Apr. 19, 1967	Sub, E	P	Slotted from 2,272 to 2,318 ft. Pumping level 374 ft at 108 gpm. in Apr. 1967. 2/
502	J. R. Patterson	J. L. Myers Sons	1963	2,440	--	--	do.	485	--	--	--	D, S	2/
* 701	Lacy-Lakeview School	do.	1949	2,323	12 8 5	34 507 2,317	Kho	492	+ 32 250	Apr. 1949 June 8, 1949 Mar. 1964	Sub, E 30	P	Slotted from 2,086 to 2,317 ft. Pump set at 486 ft. Reported yield 200 gpm. Cemented from 2,086 ft to surface. Temp. 110°F. 1/ 2/
* 702	City of Lacy-Lakeview	do.	1955	2,336	8 6	500 2,336	do.	485	220 350 200	1961 July 1963 Oct. 1964	Sub, E 20	P	Perforated from 2,094 to 2,336 ft. Pump set at 500 ft. Reported yield 75 gpm. 2/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING DIAMETER (in.)	CASING DEPTH (ft)	WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	WATER LEVEL DATE OF MEASUREMENT	METHOD OF LIFT	USE OF WATER	REMARKS
* ST-40-24-703	McLennan County WCID No. 2	J. L. Myers Sons	1961	2,348	18 13 7	68 916 2,342	Kho	537	260 255	Nov. 1962 Mar. 7, 1964	T, E 125	P	Completed from 2,185 to 2,337 ft. Reported yield 500 gpm. Cemented from 916 ft to surface. 1/ 3/
704	Youngblood and Flowers	do.	1951	2,353	6 4	617 2,353	do.	495	--	--	--	D, S	Perforated. Cemented from 2,353 ft to surface. 1/ 2/
* 801	State of Texas	Layne Texas Co.	1942	2,400	10 8 6	501 2,195 2,400	Kpe, Kho	465	+ 35 + 310	1942 Apr. 2, 1949 Nov. 25, 1962	T, E 60	P	Completed from 2,196 to 2,399 ft. Pumping level 263 ft at 560 gpm on Jan. 7, 1942. Pump set at 300 ft. Cemented from 501 ft to surface. Temp. 117°F. 1/ 3/ (Former owner James Connally Air Force Base)
* 802	do.	do.	1942	2,370	10 8 6	501 2,197 2,370	do.	465	+ 331	Jan. 9, 1943 1963	T, E	P	Completed from 2,178 to 2,369 ft. Pumping level 262 ft at 513.5 gpm on Feb. 7, 1942. Pump set at 630 ft. Temp. 116°F. 1/ 3/ (Former owner James Connally Air Force Base)
* 803	do.	do.	1952	2,494	20 16 10 8	46 1,040 2,250 2,494	Kho	460	73 227.63	Feb. 11, 1953 Apr. 3, 1969	Sub, E	P	Slotted from 2,253 to 2,492 ft. Pumping level 520 ft at 650 gpm on Feb. 11, 1953. Pumping level 652 ft at 768 gpm on Mar. 31, 1964. Pump set at 800 ft. Cemented from 2,250 ft to surface. Texas Water Development Board observation well. 1/ 2/ 3/ 4/ (Former owner James Connally Air Force Base)
28-202	Odle Perney	Frank Baker Place	1961	477	7 5 2	-- -- 315	Kgr	850	192.22	May 20, 1968	Sub, E 1	D, S	Pump set at 315 ft. Gravel packed.
203	Earl Schulz	--	1900	980	--	--	Ktp	890	2 +	1964 1965	C, G	S	Pump set at 125 ft.
301	Pete Palasota, Jr.	Frank Baker Place	1965	500	7 5	25 --	Kgr	855	180	July 1, 1965	J, E	D	1/
* 29-601	East Crawford Water Supply Corp.	Triangle Pump and Supply Co.	1966	1,206	7	1,200	Kho	675	207.3 251.20	Sept. 12, 1966 Mar. 6, 1969	Sub, E 15	P	Open hole completion from 1,200 to 1,206 ft. Pumping level 435 ft at 80 gpm in Oct. 1966. Pump set at 500 ft. Temp. 87°F. Texas Water Development Board observation well. 2/ 4/
* 802	City of Crawford	Frank Baker Place	1952	962	7 5	350 --	Kho	735	170 322.18 341.1	Dec. 1, 1960 Jan. 11, 1965 Sept. 7, 1965	Sub, E 15	P	1/
* 805	do.	Fulton T. Place	1962	941	8	912	do.	735	307.99 336.7	Jan. 11, 1965 Mar. 7, 1969	Sub, E 15	P	Open hole completion from 912 to 941 ft. Pumping level 398 ft at 104.5 gpm on Feb. 25, 1966. Pump set at 399 ft. Estimated yield 90 gpm. Cemented from 912 ft to surface. Texas Water Development Board observation well. 1/ 2/ 4/
30-201	Boots Yankie	Hervey Meadows and Son Well Driller	1962	1,060	4	1,060	do.	545	85	Apr. 4, 1962	Sub, E 1-1/2	D	Slotted from 1,015 to 1,060 ft. Pump set at 210 ft. Reported yield 15 gpm. Cemented from 1,015 ft to surface. 1/
202	Baylor University Recreation Camp	do.	1961	1,075	6 4	400 1,075	do.	550	120	Sept. 1961	Sub, E 3	P	Perforated from 1,035 to 1,075 ft. Reported yield 100 gpm. Cemented from 1,075 ft to surface 1/
* 301	U. S. Army Corps of Engineers	Ward and Ward Drilling Co.	1966	1,126	5 3	1,106 1,126	do.	475	104	July 12, 1966	Sub, E	P	Screened from 1,106 to 1,126 ft. Pumping level 250 ft at 16 gpm on July 12, 1966. 1/
* 302	do.	do.	1966	1,140	5 3	1,120 1,140	do.	480	130	July 11, 1966	Sub, E	P	Screened from 1,120 to 1,140 ft. Pumping level 161 ft at 15 gpm on July 11, 1966. 1/
403	-- McKethan	Hervey Meadows and Son Well Driller	1958	1,003	--	--	do.	600	150	Sept. 1958	--	D, S	2/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	ST-40-30-602	City of Waco	Hervey Meadows and Son Well Driller	1946	1,127	6 4	200 1,127	Khe	520	100	Dec. 15, 1960	Sub, E	P	Screened from 1,124 to 1,127 ft. Reported yield 50 gpm.
*	603	Speegleville School	J. G. Myers Sons	1962	1,146	10 7 4	30 1,109 1,146	do.	568	130 185.70	Mar. 1962 Apr. 10, 1969	Sub, E 2	P	Completed from 1,109 to 1,130 ft. Pump set at 310 ft. Reported yield 25 gpm. Cemented from 1,109 ft to surface. Temp. 72°F. Texas Water Development Board observation well. 1/ 4/
*	604	U. S. Army Corps of Engineers	Ward and Ward Drilling Co.	1966	1,171	5 3	1,151 1,171	do.	498	113	July 3, 1966	Sub, E	P	Screened from 1,151 to 1,171 ft. Pumping level 162 ft at 15 gpm on July 3, 1966. 1/
	605	Bud Curtain	Hervey Meadows and Son Well Driller	1964	1,120	7 4	600 1,120	do.	531	--	--	Sub, E 20	P	Slotted from 1,080 to 1,120 ft. Cemented from 1,080 ft to surface. 1/
	606	Dr. Paul C. Murphy	do.	1964	1,130	8 5	500 1,130	do.	540	--	--	Sub, E	P	Slotted from 1,080 to 1,130 ft. Cemented from 1,080 ft to surface. 1/
	607	E. M. Davis	do.	1960	1,130	8 5	500 1,130	do.	553	115 130	1960 1964	Sub, E 10	P	Slotted from 1,080 to 1,130 ft. Pump set at 400 ft. Cemented from 1,080 ft to surface. 1/
	608	J. O. Chapin	Dual Drilling-Atlantic Richfield	1968	--	10 8	-- --	Khe, Kho	539	194.85	Apr. 10, 1969	N	Irr	2/
	609	do.	Hervey Meadows and Son Well Driller	1968	1,120	5	1,120	Khe	541	163.2	do.	Sub, E 5	Irr	Perforated from 1,040 to 1,120 ft. Pump set at 300 ft. Cemented from 1,040 ft to surface.
*	901	M. M. O'Dowd	J. L. Myers Sons	1961	1,360	9 7 5	18 521 1,360	Kho	522	150 222.84	Nov. 10, 1961 Apr. 10, 1969	Sub, E	D	Completed from 1,269 to 1,337 ft. Cemented from 1,269 ft to surface. Temp. 75°F. Texas Water Development Board observation well. 1/ 4/
*	31-101	City of Waco	Layne Texas Co.	1942	1,600	8 6	1,203 1,600	Khe, Kho	497	20 168 106 172	Mar. 31, 1949 Aug. 16, 1962 Apr. 1963 Mar. 7, 1964	T, E 30	P	Completed from 1,208 to 1,230, 1,316 to 1,339, 1,352 to 1,498, and 1,541 to 1,598 ft. Pumping level 186 ft at 230 gpm in Apr. 1963. Pump set at 315 ft. Reported yield 400 gpm. Temp. 94°F. 1/
	103	Lake Waco Country Club	C. M. Stoner Drilling Co.	1962	1,475	10 7	700 1,475	Kho	512	125	June 1962	Sub, E 75	P, Irr	Slotted from 1,328 to 1,409 ft. Pumping level 525 ft at 500 gpm on July 8, 1962. Pump set at 650 ft. Cemented from 1,328 ft to surface. 2/
	210	F. Oretup	Fulton T. Place	1958	1,285	--	--	Khe	455	37 40 58 69	Mar. 10, 1962 Oct. 4, 1962 Dec. 3, 1962 Mar. 1964	--	D	2/
*	402	U. S. Army Corps of Engineers	Ward and Ward Drilling Co.	1966	1,184	5 3	1,164 1,184	do.	493	100	July 2, 1966	Sub, E	P	Screened from 1,164 to 1,184 ft. Pumping level 111 ft at 17 gpm on July 2, 1966. Pump set at 132 ft. Cemented from 1,164 ft to surface. 1/
*	403	do.	do.	1966	1,192	5 3	1,172 1,192	do.	476	102	July 1, 1966	Sub, E	P	Screened from 1,172 to 1,192 ft. Pumping level 249 ft at 16 gpm on July 1, 1966. Pump set at 269 ft. Cemented from 1,172 ft to surface. 1/
*	501	City of Waco	J. L. Myers Sons	1945	2,151	10 7 5	506 1,918 2,150	Kho	547	79 215 235 267 284.39	June 2, 1942 Apr. 20, 1962 May 1962 Oct. 1964 May 11, 1966	T, E 75	P	Slotted from 1,924 to 2,104 ft. Pumping level 160 ft at 340 gpm on June 1, 1942. Pump set at 372 ft. Reported yield 420 gpm. Cemented. Temp. 105°F. 1/
	502	do.	--	--	--	--	--	Ktp	523	--	--	N	N	Well sealed and abandoned.
	503	do.	E. B. Case	--	1,702.8	--	--	Khe	547	-	--	N	N	Well sealed and abandoned. 1/
*	504	do.	Layne Texas Co.	1942	2,150	10 7 5	506 1,918 2,150	Kho	547	79 215 235 267 284.39	June 2, 1942 Apr. 20, 1962 May 1962 Oct. 1964 May 11, 1966	T, E 75	P	Slotted from 1,924 to 2,104 ft. Pumping level 160 ft at 340 gpm on June 1, 1942. Pump set at 340 gpm on June 1, 1942. Pump set at 372 ft. Reported yield 420 gpm. Cemented. Temp. 105°F. 1/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	ST-40-31-503	Cedar Crest Nursing Home	Hervey Meadows and Son Well Driller	1947	1,700	6	--	Khe	505	80 175	1958 1967	J, E 3	N	Pump set at 220. Reported yield 120 gpm.
*	601	City of Waco	--	1914	2,046	6	--	Ktp	415	69 200	1937 Oct. 1964	T, E 3	P	Pump set at 420 ft. Reported yield 50 gpm. Temp. 101.5°F. 3/
	602	Concord Laundry	J. L. Myers Sons	1950	2,094	7 5	540 2,094	Khe	408	+ 20	1947 1949	T, E	Ind	Gun perforated with 120 slots 1,922 to 2,094 ft. Pump set at 150 ft. Reported yield 80 gpm. Cemented from 2,094 to 1,922 ft. 1/ 2/
	603	Progress Laundry	Edward Sumner	1930	2,108	6	2,108	Ktp	438	--	--	Sub, E 20	Ind	Pump set at 300 ft. Reported yield 00 gpm.
*	604	Buchanan Laundry	H. B. Glass	1956	2,122	8 5	500 --	Khe	416	108 182	May 1959 Apr. 7, 1969	T, E 20	Ind	Slotted. Pump set at 400 ft. Reported yield 300 gpm. Temp. 104°F. Texas Water Development Board observation well. 2/ 4/
*	605	-- Gray	-- Bell	--	2,263	8	1,970	Ktp	416	+ 5	Jan. 9, 1939	N	N	1/
	606	M and M Laundry	--	--	--	--	--	do.	460	--	--	N	N	
	608	Amicable Life Insurance Co.	--	1911	2,300	12 6 4	-- -- --	do.	417	+ 35 100	1925 1967	Sub, E 3	P	Pump set at 660 ft. Temp. 104°F.
*	612	Pure Milk Co.	J. L. Myers Sons	1957	2,194	10 8	500 2,194	Khe	415	100 223.02	1956 Apr. 10, 1969	T, E 25	Ind	Slotted from 2,024 to 2,194 ft. Pump set at 400 ft. Reported yield 100 gpm. Temp. 110°F. Texas Water Development Board observation well. 2/ 4/
	613	City of Waco	--	1917	2,056	--	--	Ktp	415	126	May 1966	--	N	
	701	Midway Water Co.	C. M. Stoner Drilling Co.	1956	1,779	7 4	605 1,779	Khe	695	280 219 336.82	May 1959 1962 Apr. 1, 1965	Sub, E 25	P	Slotted from 1,689 to 1,779 ft. Pumping level 355 ft at 380 gpm in May 2959. Reported yield 260 gpm. Cemented. 2/ 3/
*	702	do.	J. L. Myers Sons	1951	1,936	6 4	550 1,936	do.	630	120 354 318.38	Dec. 1951 Oct. 1964 Apr. 1, 1965	T, E 15	P	Perforated from 1,826 to 1,936 ft. Pumping level 150 ft at 100 gpm in 1952. Pump set at 300 ft. Cemented. Temp. 99°F. 1/ 2/
	704	Midway Water Co.	C. M. Stoner Drilling Co.	1962	1,803	9 6	702 1,803	Khe	632	230	May 3, 1962	T, E	P	Slotted from 1,662 to 1,800 ft. Reported yield 500 gpm. Cemented. 2/
*	705	U. S. Army Corps of Engineers	J. L. Myers Sons	1964	1,298	7 4 2	16 1,254 1,274	Khe	515	--	--	Sub, E 2	P	Completed from 1,253 to 1,274 ft. Pump set at 210 ft. Cemented. 1/ 2/
*	706	do.	do.	1964	1,329	7 4 2	28 1,288 1,308	do.	502	--	--	Sub, E 2	P	Completed from 1,287 to 1,308 ft. Pump set at 210 ft. Cemented. 1/ 2/
	801	Midway Water Co.	R. F. Caraway	1964	1,828	8	480	Ktp	632	317 300 337.23	1962 Dec. 29, 1964 Apr. 1, 1965	Sub, E 35	P	Pump set at 600 ft. Reported yield 240 gpm. Cemented. 2/
*	802	Bryan-Maxwell-Bryan	Layne Texas Co.	1947	2,040	13 8 6	700 1,840 2,040	Khe	589	275.56 315.37	May 31, 1964 Apr. 15, 1969	N	N	Screened from 1,904 to 2,009 ft. Pumping level 323 fc at 421 gpm on Aug. 23, 1947. Cemented from 1,840 ft to surface. Texas Water Development Board automatic recorder observation well. 1/ 3/ 4/
	803	Midway Water Co.	C. M. Stoner Drilling Co.	1966	1,934	10 7	1,000 1,934	do.	632	342.8	May 12, 1966	Sub, E	P	Slotted from 1,850 to 1,934 ft. Cemented.
	804	do.	J. L. Myers Sons	1963	1,870	8 7	702 1,870	do.	595	280	May 1963	Sub, E 30	P	Completed from 1,773 to 1,863 ft. Pump set at 550 ft. Estimated yield 200 gpm. 1/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* ST-40-31-901	City of Waco	Swart Hout Bros.	1948	1,560	--	--	Khe	495	--	--	T, E 20	P	2/
902	do.	Fowler Construction	--	2,410	--	--	Ktp	500	+138	1913	N	N	Abandoned. 1/
* 32-101	City of Bellmead	J. L. Myers Sons	1949	2,400	10 7 5	29 522 2,400	Kho	445	--	--	T, E	P	Perforated from 2,200 to 2,400 ft. Pump set at 413 ft. Reported yield 165 gpm. Temp. 87°F. 2/
* 102	do.	Layne Texas Co.	1948	2,303	13 8 6	702 2,102 2,303	do.	435	+ + 180	June 15, 1948 June 9, 1949 1962	T, E 75	P	Slotted from 2,115 to 2,287 ft. Pumping level 222 ft at 400 gpm on June 27, 1948. Pump set at 600 ft. Reported yield 500 gpm. Cemented from 2,115 ft to surface. Temp. 116°F. 1/ 2/
* 103	do.	J. L. Myers Sons	1957	2,396	20 16 8 6	53 907 2,198 2,396	do.	440	160 160 180 250 253 311.20	May 21, 1957 Dec. 1960 1962 Apr. 1964 May 31, 1965 Oct. 20, 1967	T, E 175	P	Slotted from 2,198 to 2,392 ft. Pumping level 381 ft at 615 gpm on May 23, 1957. Pump set at 520 ft. Cemented from 2,198 ft to surface. Temp. 115°F. 1/ 2/
* 104	City of Lacy- Lakeview	J. L. Myers Sons	1960	2,329	20 13 7	40 905 2,320	Kho	478	250 240	Dec. 13, 1960 Mar. 1964	Sub, E 100	P	Slotted from 2,153 to 2,320 ft. Pumping level 454 ft at 500 gpm on Dec. 13, 1960. Pump set at 650 ft. Cemented from 2,153 ft to surface. 1/ 2/
* 106	Plantation Foods, Inc.	Smith and Shaw Pump Co.	1965	2,255	--	--	Ktp	440	--	--	--	Ind	2/
201	Frank B. Tirey	J. L. Myers Sons	1951	2,511	6 4	617 2,511	do.	440	--	--	--	D, S	Perforated. 1/ 2/
* 403	General Tire and Rubber Co.	Layne Texas Co.	1944	2,312	16 8 6	697 2,088 2,311	Kho	407	+ 30 162 235	July 18, 1944 1960 June 22, 1964	Sub, E 100	Ind	Slotted from 2,110 to 2,311 ft. Pumping level 357 ft at 726 gpm on July 22, 1944. Pump set at 490 ft. Reported yield 750 gpm. Cemented from 697 ft to surface. Temp. 115°F. 1/ 2/ 3/
404	do.	do.	1945	2,376	16 8 6	726 2,138 2,374	do.	405	+ + 30 175	1949 1954 Oct. 1961	T, E 125	Ind	Slotted from 2,133 to 2,312 and 2,352 to 2,374 ft. Pump set at 450 ft. Cemented from 726 ft to surface. Temp. 115°F. 1/ 2/
* 405	Texas Power and Light Co.	Hill, Green, Dearing and Son	1914	2,147	8 6	749 1,979	Ktp	387	89	1914 1949	T, E 30	Ind	Reported flowed 550 gpm in 9 Temp. 115°F. 1/
* 501	City of Waco	J. L. Myers Sons	1958	2,493	16 10 6	53 780 2,493	Kho	445	193 246.53	July 17, 1958 Apr. 3, 1969	Sub, E 40	P	Slotted from 2,331 to 2,464 ft. Pumping level 344 ft at 300 gpm on July 7, 1958. Pump set at 360 ft. Cemented from 2,331 ft to surface. Temp. 114°F. Texas Water Development Board observation well. 1/ 2/ 3/
502	do.	do.	1949	2,500	10 6 4	40 337 2,500	do.	460	--	--	N	N	Slotted from 2,337 to 2,500 ft. Well plugged. 1/ 2/
* 37-501	City of McGregor	Mervyn Meadows and Son Well Driller	1965	1,340	10 8	970 1,050	Khe	739	400 426.31	Apr. 29, 1965 Mar. 7, 1969	Sub, E 75	P	Completed from 980 to 1,050 ft. Pumping level 597 ft at 155 gpm on Mar. 11, 1965. Pump set at 700 ft. Reported yield 220 gpm. Cemented from 970 ft to surface. Texas Water Development Board observation well. 1/ 3/ 4/
* 601	do.	-- Darley	1908	1,028	12 8	-- 1,038	do.	690	150 317	1943 1962	T, E 50	P	Pump set at 500 ft. Reported yield 250 gpm. Temp. 85°F.
* 602	do.	Layne Texas Co.	1942	1,250	8 6	977 1,215	Khe, Kpe	690	175	Aug. 31, 1942	N	N	Completed from 975 to 1,045, 1,045 1,056 to 1,066 and 1,136 to 1,180 ft. Pumping level 565 ft at 275 gpm in May 1959. Reported yield 50 gpm. Well plugged and abandoned. 1/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING DIAMETER (in.)	CASING DEPTH (ft)	WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	WATER LEVEL DATE OF MEASUREMENT	METHOD OF LIFT	USE OF WATER	REMARKS
* ST-40-37-603	City of McGregor	Hervey Meadows and Son Well Driller	1956	1,028	10 8	976 1,018	Khe	720	349	Feb. 7, 1958	Sub, E 50	P	Screened from 968 to 1,018 ft. Pumping level 556 ft at 275 gpm on Feb. 7, 1958. Pump set at 700 ft. Cemented from 976 ft to surface. 1/
* 604	North American Rockwell Corp., Rocketdyne Div.	Layne Texas Co.	1945	1,044	12 10 8	16 963 1,044	do.	745	280	Mar. 30, 1949	T, E 50	Ind	Completed from 960 to 1,015 ft. Pump set at 610 ft. Reported yield 160 gpm. Cemented Temp. 86°F. 1/
606	Central Bosque Water Supply Corp.	Hervey Meadows and Son Well Driller	1968	1,020	7	1,020	do.	685	400 322.4	Jan. 20, 1969 Apr. 10, 1969	Sub, E 15	P	Perforated from 950 to 1,020 ft. Pump set at 550 ft. Reported yield 12 gpm. Cemented from 950 ft to surface.
* 801	North American Rockwell Corp., Rocketdyne Div.	Layne Texas Co.	1942	1,190	10 8	971 1,190	do.	755	175 282 410	June 1942 1949 Feb. 24, 1965	T, E 100	Ind	Completed from 971 to 1,034 ft. Pumping level 610 ft at 300 gpm on Feb. 24, 1965. Pump set at 610 ft. Temp. 86°F. 1/
* 802	do.	do.	1942	1,046	10	960 1,046	do.	774	216 417	1942 Feb. 24, 1965	T, E 75	Ind	Completed from 959 to 1,044 ft. Pumping level 369 ft at 375 gpm in 2942. Pump set at 590 ft. Reported yield 280 gpm. Cemented. Temp. 86°F. 1/
* 803	do.	do.	1942	1,201	10 8	962 1,009	do.	781	297	Mar. 30, 1949	T, E 50	Ind	Screened from 968 to 1,009 ft. Pump set at 620 ft Reported yield 200 gpm. Cemented Temp. 86°F. 1/
* 804	do.	do.	1942	1,062	10 8	957 1,062	do.	800	250 414	1942 Feb. 24, 1965	T, E 100	Ind	Completed from 959 to 1,060 ft. Pumping level 485 ft at 420 gpm on Feb. 24, 1965. Pump set at 610 ft. Cemented. Temp. 85°F. 1/
* 38-302	Universal Atlas Cement Co.	-- Cluck	1928	1,485	10 6 5	205 1,227 1,485	Kho, Kpe, Kho	570	24 55 150 187.54	June 20, 1938 Jan. 6, 1943 Nov. 9, 1964 Feb. 18, 1965	T, E 50	Ind	Perforated from 1,227 to 1,485 ft. Pump set at 300 ft. Reported yield 100 gpm. Temp. 95°F.
303	Brazos Concrete Products, Inc.	C. M. Stoner Drilling Co.	1965	1,440	4	1,440	Kho	535	200	Apr. 15, 1965	Sub, E 5	Ind	Completed from 1,380 to 1,440 ft. Pump set at 359 ft. Cemented from 1,380 ft to surface. 1/
502	J. B. Todd	J. L. Myers Sons	1950	1,190	5 4	400 1,190	Khe	617	--	--	C, E	D, S	Perforated from 1,150 to 1,190 ft. Well drilled to 1,435 ft and plugged back to 1,190 ft. 2/
* 801	Spring Valley Water Supply Corp.	C. M. Stoner Drilling Co.	1965	1,460	7	1,460	Khe, Kho	695	263.00 322.08	May 13, 1965 Mar. 7, 1969	Sub, E 15	P	Gun perforated with 41 shots 1,244 to 1,264, 1,372 to 1,390, 1,397 to 1,406, 1,412 to 1,424, 1,436 to 1,440, and 1,448 to 1,450 ft. Pumping level 119 ft at 80 gpm on May 14 1965. Pump set at 443 ft. Cemented from 1,460 ft to surface. Texas Water Development Board observation well. 1/ 2/ 4/
* ST-40-39-101	Waco Syrian Association	J. L. Myers Sons	1950	1,865	6 4 2	350 1,800 1,865	Kho	635	334.56	Apr. 1, 1965	Sub, E 2	P	Completed from 1,800 to 1,865 ft. Pump set at 450 ft. Reported yield 10 gpm. Cemented from 1,800 ft to surface. Temp. 75°F.
103	Lucher Herring	Hervey Meadows and Son Well Driller	1947	1,570	10 5	915 1,570	Khe	663	180 284.39	Apr. 25, 1950 Mar. 15, 1966	Sub, E 2	D, S	Completed from 1,530 to 1,570 ft. Pumping level 480 ft at 7 gpm. Texas Water Development Board observation well. 1/ 4/
104	Midway School	J. L. Myers Sons	1950	1,872	7 4	450 1,870	Kho	670	358 347 361.32	Mar. 6, 1964 Dec. 10, 1964 Apr. 1, 1965	N	N	Reported yield 90 gpm in 1964. Cemented. Abandoned. 1/ 2/
106	Midway Water Co.	C. M. Stoner Drilling Co.	1963	1,828	10 7	990 1,828	do.	655	300 335.55	Dec. 29, 1965 Apr. 1, 1965	Sub, E 100	P	Slotted from 1,727 to 1,827 ft. Pumping level 593 ft at 580 gpm on Apr. 1, 1965. Pump set at 700 ft. Reported yield 600 gpm. Cemented. Temp. 111°F. 2/ 3/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	SF-40-39-203	Dr. Barnes	J. L. Myers Sons	1957	2,082	--	--	Kho	585	90 135 180	Sept. 1952 Dec. 1954 Dec. 1956	Sub, E	D, S	Slotted from 1,920 to 2,082 ft. 1/ 2/
*	204	C. H. McLemore	C. M. Stoner Drilling Co.	1961	1,914	7 6	1,914 1,914	do.	655	170	Oct. 26, 1964	Sub, E 20	P	Completed from 1,754 to 1,914 ft. Pump set at 400 ft. Reported yield 200 gpm. Cemented. Well supplies Hewitt, Texas, 1/
	301	Chapel Hill Memorial Park	H. B. Glass	1957	2,100	8 5	746 2,100	do.	595	140 300	1957 Nov. 10, 1965	Sub, E 15	P	Completed from 1,906 to 2,100 ft. Pump set at 600 ft. Reported yield 100 gpm. 2/
*	302	Waco Memorial Park	J. L. Myers Sons	1950	2,096	7 5	700 2,096	do.	558	45 228.13	1952 Mar. 22, 1968	Sub, E 15	Irr	Slotted from 1,996 to 2,096 ft. Pumping level 250 ft. at 230 gpm in Sept. 1959. Pump at 400 ft. Reported yield 200 gpm. Cemented. Temp. 103°F. Texas Water Development Board observation well. 1/ 2/ 4/
	501	-- Warren	Fulton T. Place	1957	1,735	8 4	-- --	Khe	620	165	Dec. 5, 1960	T, G	P	Pump set at 300 ft. Reported yield 250 gpm.
*	502	Edwin Nichols	Hervey Meadows and Son Well Driller	1965	1,560	7 5 4	680 1,560 --	do.	645	239.32 258.02	May 20, 1965 Mar. 17, 1969	Sub, E 5	P	Slotted from 1,500 to 1,560 ft. Pump set at 400 ft. Cemented. Texas Water Development Board observation well. 2/ 4/
	503	Powerom Oil Co.	C. M. Stoner Drilling	1968	1,960	4	1,960	Kho	615	275	May 5, 1968	Sub, E 5	P	Gun perforated with 5 shots 1,909 to 1,913 ft and 5 shots 1,938 to 1,942 ft. Pump set at 547 ft. Cemented from 1,960 ft to surface. 1/ 2/
*	702	Lorena Water Supply Corp.	J. L. Myers Sons	1961	1,888	16 10 7 6	31 807 1,690 1,881	do.	579	215 182.18	Oct. 1964 Mar. 7, 1969	T, E 20	P	Completed from 1,690 to 1,801 ft. Pumping level 225 ft at 191 gpm on Mar. 2, 1965. Pump set at 300 ft. Reported yield 400 gpm. Cemented. Texas Water Development Board observation well. 1/ 2/ 3/ 4/
*	40-101	Robinson Water Co.	R. F. Caraway	1951	2,391	7 5	700 2,391	do.	535	+ 50	1951 1960	T, E	P	Completed from 2,191 to 2,391 ft. Pump set at 210 ft. Reported yield 240 gpm. 2/
	102	do.	H. B. Glass	1955	2,450	8 5	700 2,450	do.	485	60 100	Dec. 20, 1960 1962	T, E	P	Completed from 2,210 to 2,450 ft. Pump set at 200 ft. Reported yield 200 gpm.
	103	Weldon Youngblood	J. L. Myers Sons	1950	2,480	6 5	-- --	do.	495	--	--	--	D, S	Perforated. 1/ 2/
	401	Robinson Water Co.	do.	1961	2,500	12 8 7	43 523 2,500	do.	460	84.55 103.72	Mar. 1, 1966 Mar. 18, 1969	Sub, E 15	P	Perforated from 2,270 to 2,500 ft. Pumping level 90 ft at 250 gpm in June 1962. Cemented. Texas Water Development Board observation well. 1/ 2/ 4/
	701	Rosenthal Water Co.	H. B. Glass	1946	2,550	7 5	700 2,550	do.	483	+ 0	1956 1959	Sub, E 7-1/2	P	Completed from 2,350 to 2,550 ft. 2/
*	702	Levi Water Supply Corp.	West-Tex Tool Service	1964	2,640	5	2,640	do.	523	90 94.92	Nov. 12, 1964 Mar. 18, 1969	Sub, E 7-1/2	P	Pump set at 130 ft. Cemented. Texas Water Development Board observation well. 2/ 4/
	804	C. S. Lankart	H. B. Glass	1956	2,647	8 6	525 2,657	Ktp	385	+	July 26, 1968	Flows	Ind, Irr	Estimated flow 400 gpm in 1964.
*	46-101	Rolling Hills Country Club	Key Water Well Drilling-Development Co.	1967	1,500	8 7	850 1,500	Kho	815	--	--	Sub, E 40	P	Slotted from 1,420 to 1,500 ft. Pump set at 600 ft. Cemented from 1,420 ft to surface. 1/ 2/
*	402	City of Moody	J. L. Myers Sons	1949	1,494	8 6	1,333 1,494	do.	776	310	Oct. 26, 1964	Sub, E 40	P	Perforated from 1,333 to 1,487 ft. Pumping level 520 ft at 181 gpm on Jan. 26, 1965. Pump set at 600 ft. Cemented from 1,333 ft to surface. 1/ 2/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* ST-40-46-403	City of Moody	J. L. Myers Sons	1957	1,561	20 13 8 6	24 896 1,320 1,561	Kho	767	280 327.6	Aug. 6, 1957 Mar. 7, 1969	Sub, E 50	P	Slotted from 1,347 to 1,485 ft. Pump set at 600 ft. Cemented. Texas Water Development Board observation well. 1/ 3/ 4/
* 601	City of Eddy	--	--	1,565	7	--	Khe	685	254 258	Oct. 22, 1964 Jan. 5, 1965	N	N	Abandoned.
* 602	W. H. Cast	Emmett Aaron Class	--	1,565	7	1,565	Khe	690	305 278.0	Oct. 1964 Mar. 18, 1969	Sub, E 10	P	Pump set at 407 ft. Reported yield 80 gpm. Cemented. Texas Water Development Board observation well. 4/
* 801	Elm Creek Water Supply Corp.	C. M. Stoner Drilling Co.	1967	1,680	14 8 7	9 750 1,680	Kho	830	374	Feb. 7, 1967	Sub, E 20	P	Slotted from 1,595 to 1,680 ft. Pumping level 416 ft at 100 gpm on Feb. 9, 1967. Pump set at 504 ft. Reported yield 242 gpm. Cemented from 1,595 ft to surface. Temp. 99°F. 1/ 2/ 3/
* 47-401	E. B. Firguia	--	--	1,565	5	--	Khe	600	191.58	Jan. 5, 1965	N	N	
* 403	do.	Harvey Meadows and Son Well Driller	1963	1,535	7	1,535	do.	600	160 192.52	Oct. 22, 1964 May 12, 1967	Sub, E 5	P	Perforated from 1,495 to 1,535 ft. Pump set at 235 ft. Reported yield 30 gpm. Cemented from 1,535 ft to surface. Well supplied Bruceville, Texas.

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I.
4/ For water-level measurements, see Table 4.

MC LENNAN COUNTY

Table 2.–Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
ST-39-17-201	S. H. Riggs	Grindstaff No. 1	1951	2,030	560	E
401	Simon Korshoj	R. F. Ferguson No. 1	—	3,977	557	E
801	William H. Winn	James L. Morrow No. 1	1955	2,533	449	D,E
25-901	R. J. Caraway	Slaughter No. 1	1954	2,240	580	E
26-402	Gragg Drilling Co.	Jessie M. Thompson No. 1	1961	2,516	508	E
801	Mae Belcher	W. S. Smyth No. 1	1942	3,838	525	E
40-15-902	C. P. Quinlan	Prause No. 1	1950	970	577	E
16-502	Smith and Breyer	C. A. Russell No. 1	1955	704	617	E
503	do.	Alfred Brem No. 1	1955	776	605	E
702	Baylor University Geology Department	J. L. McCain No. 1	1959	630	595	E
24-804	C. R. Porter	E. D. Mazanec No. 1	—	1,591	467	E
28-901	Falcon Oil Corp.	Henry Mattlage Jr. No. 1	1954	7,585	762	E
29-103	E. J. Muth	Freeman No. 1	1950	2,000	733	E
37-902	Delta Drilling Co.	Carl Horstman No. 1	1939	2,258	696	E
38-301	R. C. Smith and Falcon Oil Co.	H. G. McKethan No. 1	1953	1,603	505	D,E
39-401	Beacon Oil and Refining Co.	Myrtle Trice No. 1	1956	1,809	670	E
801	Gray Oil Co.	C. B. and H. C. Warren No. 1	1950	1,700	555	D,E
40-303	Max McCotter	Wardlaw No. 1	1952	1,322	369	E
46-301	Jet Oil Co.	Wills No. 1	1953	1,129	685	E
47-101	Henry C. Paine	H. C. Eubank No. 1	1951	1,160	545	E
402	W. H. Mahon	C. W. Scott No. 1	1963	592	638	E

Table 3.—Drillers' Logs of Selected Wells

Well ST-39-17-701

Owner: Axtell Water Supply Corp.
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Surface soil	3	3
Clay	57	60
Shale	500	560
Chalk rock	220	780
Shale	327	1,107
Sandy lime	341	1,448
Broken lime	512	1,960
Sandy lime	188	2,148
Lime	212	2,360
Sandy lime	94	2,454
Broken lime	336	2,790
Red bed and shale	29	2,819
Shale	144	2,963
Sand	127	3,090
Shale	39	3,129

Well ST-39-17-801

Owner: James L. Morrow
Driller: William H. Winn

	THICKNESS (FEET)	DEPTH (FEET)
Shale	320	320
Chalk	260	580
Shale	30	610
Sandy shale	10	620
Shale	50	670
Sandy shale	50	720
Shaly lime	280	1,000
Lime	100	1,100
Shaly lime - hard streaks	90	1,190
Lime	50	1,240
Hard lime	130	1,370
Hard shale	60	1,430
Hard, sandy lime	35	1,465
Hard lime	465	1,930
Hard, shaly lime	603	2,533

Well ST-39-17-901

Owner: Prairie Hill Water Supply Corp.
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	4	4
Clay	36	40
Shale	560	600
Chalk rock	178	778
Shale	572	1,350
Lime	288	1,638
Broken lime and shale	369	2,007
Lime	385	2,392
Sandy lime	32	2,424
Broken lime and shale	278	2,702
Lime and shale	119	2,821
Sand	232	3,053
Sand and shale	194	3,247
Sand	68	3,315
Shale	70	3,385

Well ST-39-25-101

Owner: Mt. Carmel Center
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Surface pipe	48	48
Shale	368	416
Chalk rock	102	518
Chalk and shale	261	779
Shale and lime	257	1,036
Lime	1,018	2,054
Broken sand and lime	253	2,307
Shale	73	2,380
Sandy lime	185	2,565
Sand	70	2,635
Shale and sand	89	2,724
Shaly sand	51	2,775

Well ST-39-25-102

Owner: Elk-Oaklake Water Supply Corp.
Driller: J. L. Myers Sons

Clay	47	47
Shale	345	392

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

Well ST-39-25-102—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Chalk rock	248	640
Shale	380	1,020
Lime	450	1,470
Lime and shale	77	1,547
Lime	48	1,595
Lime and shale	237	1,832
Broken shale	19	1,851
Lime and shale	221	2,072
Sandy lime	40	2,112
Hard lime	25	2,137
Sandy lime	19	2,156
Lime and shale	379	2,535
Broken sand	87	2,622
Shale with streaks of sand	69	2,691
Sandy shale	15	2,706
Broken sand	102	2,808
Sand and shale	97	2,905

Well ST-39-25-401

Owner: Texas Power and Light Co.
Driller: Layne Texas Co.

	THICKNESS (FEET)	DEPTH (FEET)
Surface soil	3	3
Clay	22	25
Shale	183	208
Shale and streaks of sand	61	269
Shale	156	425
Lime	94	519
Shale and streaks of lime	541	1,060
Hard lime and shale streaks	115	1,175
Shale and streaks of lime	40	1,215
Lime	127	1,342
Lime and streaks of shale	90	1,432
Shale and streaks of lime	227	1,659
Sand	6	1,665
Lime and shale	451	2,116
Sandy shale	16	2,132
Lime and shale	43	2,175
Sandy shale (hard)	17	2,192
Lime and shale	149	2,341

Well ST-39-25-401—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Hard sand	10	2,351
Hard shale and lime	218	2,569
Fine white sand and lignite streaks	18	2,587
Shale	9	2,596
Streaks of sand and shale	8	2,604
Hard sand and streaks of shale	42	2,646
Shale	5	2,651
Streaks of sand and shale	13	2,664
Gray shale	66	2,730
Red shale	96	2,826
Rock and streaks of shale	9	2,835
Sand and streaks of shale	34	2,869
Shale	7	2,876
Sand and streaks of shale	40	2,916
Shale	119	3,035

Well ST-39-25-501

Owner: City of Mart
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Surface soil	40	40
Shale	500	540
Rock and shale streaks	65	605
Chalk rock	196	800
Shale	282	1,082
Lime and shale	154	1,236
Lime	314	1,550
Shale and lime	41	1,591
Broken lime	92	1,683
Lime and shale	43	1,726
Lime	44	1,770
Shale and lime	180	1,950
Lime	50	2,000
Broken lime and shale	196	2,196
Lime	244	2,440
Shale and lime	88	2,528
Shale	22	2,550
Lime	105	2,655
Shale and lime	120	2,775

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-39-25-501—Continued		
Lime	25	2,800
Red shale and lime	50	2,850
Sandy shale and lime	75	2,925
Red shale and lime	39	2,964
Red, sandy lime	61	3,025
Red, sandy shale	9	3,034
Pea gravel and fine sand	26	3,060
Sand	75	3,135
Sand with shale breaks	18	3,153
Sand	28	3,181
Well ST-39-25-701		
Owner: H. and H. Water Supply Corp. Driller: J. L. Myers Sons		
Surface soil	4	4
Clay	64	68
Shale	363	431
Chalk rock	227	658
Shale	345	1,003
Lime	330	1,333
Broken lime	113	1,446
Shale and lime	111	1,557
Broken lime	108	1,665
Lime and shale	175	1,840
Broken lime	87	1,927
Lime and shale	116	2,043
Broken lime	517	2,560
Sandy shale	140	2,700
Lime and shale	80	2,780
Sand and shale	110	2,890
Sand	26	2,916
Well ST-39-33-101		
Owner: Texas Power and Light Co. Driller: Layne Texas Co.		
Clay	20	20
Gravel	7	27
Shale	16	43
Shale	10	53
Shale	160	213
Shale	146	359
Shale	66	425
Shale and chalk	36	461
Chalk	4	465
Chalk	26	491
Chalk	50	541
Chalk	11	552
Chalk and shale streaks	44	596
Chalk and shale with shale breaks	38	634
Chalk and shale	30	664
Chalk and shale	39	703
Shale and chalk streaks	22	725
Shale and chalk streaks	54	779
Shale with hard streaks	57	836
Shale, hard streaks	27	863
Shale	32	895
Shale	35	930
Shale and chalk	25	955
Hard shale with chalk	35	990
Shale and chalk streaks	35	1,025
Hard shale and chalk	21	1,046
Hard shale with chalk	21	1,067
Shale, chalk, and lime streaks	19	1,086
Shale, chalk, and lime	12	1,098
Hard shale and lime	38	1,136
Shale, chalk, and lime streaks	63	1,199
Shale, chalk, and lime	38	1,237
Chalk, lime, and shale	73	1,310
Sandy shale streaks, chalk, and lime	75	1,385
Sandy, shale and chalk	94	1,479
Shale and lime	81	1,560
Shale and lime	60	1,620
Shale and lime	76	1,696
Sandy lime and shale	66	1,762
Lime and shale	40	1,802
Lime and shale	54	1,856

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-39-33-101—Continued		
Shale, lime, and chalk	25	1,881
Sandy shale	28	1,909
Lime and shale	16	1,925
Lime and shale	14	1,939
Shale and lime	40	1,979
Shale and lime	30	2,009
Lime	13	2,022
Lime and shale	31	2,053
Sandy lime and shale	49	2,102
Sandy lime and shale	36	2,138
Sandy lime and shale	52	2,190
Lime and sandy shale	58	2,248
Lime and sandy shale	10	2,258
Shale	42	2,300
Shale and lime	36	2,336
Hard shale	30	2,366
Hard shale	34	2,400
Hard shale	26	2,426
Hard shale	34	2,460
Hard shale and lime	16	2,476
Hard shale	42	2,518
Sandy lime, shale, and sand	58	2,576
Sandy lime and shale	16	2,592
Sandy lime and shale	6	2,598
Shale and lime	24	2,622
Sand and sandy lime	50	2,672
Sand with shale streaks	90	2,762
Sand and shale layers	19	2,781
Hard shale	9	2,790
Hard shale	30	2,820

Well ST-40-15-901

Owner: Bold Springs Water Supply Corp.
Driller: C. M. Stoner Drilling Co.

Soil	1	1
Clay	7	8
Sand	12	20
Blue shale	330	350
White rock	500	850
Lime	610	1,460
Red and green shale	25	1,485
Sand	31	1,516
Shale	14	1,530
Sand	10	1,540
Shale	110	1,650
Sand	200	1,850
Yellow, red sand and shale	24	1,874

Well ST-40-16-402

Owner: City of West
Driller: J. L. Myers Sons

Fill Dirt	4	4
Yellow clay	11	15
Rock	10	25
Lime	55	80
Shale with layers of shale	286	366
Shale	30	396
Lime	72	468
Rock and shale	118	586
Lime	200	786
Lime and shale	94	880
Lime	245	1,125
Sandy lime	75	1,200
Lime and shale	30	1,230
Sandy lime	150	1,380
Lime	78	1,458
Sandy lime	5	1,463
Sand	5	1,468
Lime	3	1,471
Sand	9	1,480
Hard lime	13	1,493
Lime with shale streaks	51	1,544
Lime	76	1,620
Soft sandy lime	55	1,675
Hard lime and shell rock	60	1,735
Lime	35	1,770
Sandy lime	10	1,780

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-16-402—Continued		
Hard lime	99	1,879
Hard sandy lime	14	1,893
Sand with shale streaks	68	1,961
Hard sand with soft streaks	29	1,990
Hard sand	7	1,997
Coarse, hard sand	7	2,004
Shale	4	2,008
Well ST-40-16-403		
Owner: City of West Driller: J. L. Myers Sons		
Surface clay	2	2
Clay and rock	23	25
Shale	415	440
Rock	88	528
Lime	339	867
Shale	119	986
Sand	18	1,004
Lime	392	1,396
Lime and shale	140	1,536
Lime	45	1,581
Sandy lime	45	1,626
Lime	159	1,785
Broken sand	78	1,863
Sand	123	1,986
Sandy lime	59	2,045
Lime	43	2,088
Well ST-40-16-404		
Owner: City of West Driller: Key Water Well Drilling — Development Co.		
Surface soil and lime	25	25
Lime	1,005	1,030
Sand	90	1,120
Lime	40	1,160
Sandy lime	260	1,420
Hard lime	80	1,500
Sandy lime	54	1,554
Lime	107	1,661

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-16-404—Continued		
Hard lime	131	1,792
Water sand	208	2,000
Well ST-40-16-701		
Owner: Hilltop Water Supply Corp. Driller: J. L. Myers Sons		
Surface soil	5	5
Clay	19	24
Sand and gravel	21	45
Shale	64	109
Chalk rock	295	404
Shale	246	650
Lime and shale	156	806
Lime	182	988
Broken lime	689	1,677
Lime and shale	113	1,790
Sandy shale	17	1,807
Broken sand	29	1,836
Shale	36	1,872
Sand and shale	9	1,881
Shale	26	1,907
Broken sand	80	1,987
Sand	47	2,034
Sandy shale	22	2,056
Shale	106	2,162
Sandy shale	5	2,167
Broken sand	52	2,219
Shale	8	2,227
Broken sand	107	2,334
Red bed	15	2,349
Shale	33	2,382
Sand	43	2,425
Shale	5	2,430
Well ST-40-22-307		
Owner: Gholson Water Supply Corp. Driller: Ward and Ward Drilling Co.		
Topsoil	1	1
Clay, gravel, and sand	14	15
Yellow clay	15	30

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-22-307—Continued		
Clay and gravel	34	64
Green shale	16	80
Hard shale and gravel	4	84
Limestone	146	230
Limestone and shale	12	242
Limestone	168	410
Shale	29	439
Limestone	100	539
Slate and shale	17	556
Sandstone	6	562
Limestone	565	1,127
Sand	33	1,160
Slate	20	1,180
Well ST-40-22-308		
Owner: Lacy Feed Co. Driller: Hervey Meadows and Son Well Driller		
Black soil	3	3
Gravel and sand	12	15
Yellow clay	14	29
Blue shale	43	72
White rock	33	105
Hard, blue rock	40	145
Hard, white lime	165	310
Blue shale	95	405
White lime	25	430
Black shale	75	505
Glen Rose lime	575	1,080
Trinity sand	47	1,127
Well ST-40-22-807		
Owner: Behrens Drug Co. Employees' Club Driller: Hervey Meadows and Son Well Driller		
Soil	1	1
White rock	13	14
Clay	3	17
White rock	5	22
Blue rock	94	116
White rock	211	327
Blue shale	13	340
White lime	25	365
Black shale	30	395
Glen Rose lime	565	960
Trinity sand	50	1,010
Well ST-40-22-902		
Owner: O. E. Moore Driller: Hervey Meadows and Son Well Driller		
Soil	10	10
Clay and gravel	30	40
Blue rock	40	80
White lime	160	240
White lime	170	410
Soft, blue lime (shale)	30	440
Harder lime and shale	100	540
Possible water lime	20	560
Glen Rose lime	560	1,120
Hard, tight sand (no water)	20	1,140
Loose sand	60	1,200
Well ST-40-24-102		
Owner: Ross Water Supply Corp. Driller: H. B. Glass		
Coarse-grained sandy topsoil	13	13
Firm, calcareous, white chalk	257	270
Dark grayish-black, calcareous shale	270	540
Dark blue-black, non-calcareous shale	92	632
Firm, white, calcareous lime	8	640
Soft, greenish shale	80	720
Hard, white to buff colored, lime with dark shale streaks	148	868
Soft, brown, chalky lime	7	875
Hard, brownish lime	25	900
Hard, white lime with black shale streaks	20	920
Hard, brownish limestone	77	997
Brown, clayish limestone	58	1,055
Soft chalk, white lime with dark shale streaks	45	1,100

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-24-102—Continued		
Hard, white lime with shaly shale	23	1,123
Hard, dark gray, fossiliferous lime with black shale streaks	15	1,138
Firm, white lime with sandy streaks	122	1,260
Dark gray, sandy lime	64	1,324
Hard, white and pinkish limestone	95	1,419
Hard, white lime with red and brown quartz grains	211	1,630
Hard, white lime with soft, gray chalky streaks	60	1,690
Hard, white lime	115	1,805
Hard, gray, fossiliferous lime	33	1,838
Firm, fine grained, sandy calcareous shale	37	1,875
Dark black shale and sandy lime	10	1,885
Gray, sandy lime with reddish lime streaks	29	1,914
Soft, black shale with sandy lime streaks	8	1,922
Soft, brown shale and soft, gray lime	32	1,954
Fine, gray sand with sandy, black shale	8	1,962
Dark gray lime and gray shale streaks	52	2,014
Gray, calcareous shale with sandy lime	10	2,024
Dark brownish-red, fine-grained, sandy shale	10	2,034
Fine-grained, yellowish sandstone	11	2,045
Hard, black shale with iron pyrites and white sandstone	24	2,069
Dark red shale with fine-grained, white sandstone	5	2,074
Dark red shale with fine-grained, yellow, brown, red, and white sandstone	20	2,094
Firm, red shale with light brown, fine-grained sandstone	5	2,099
Light red shale with light brown, fine-grained sandstone	5	2104
Hard, red shale with soft, green shale and fine-grained, green sandstone	5	2,109
Medium to coarse-grained, brown to tan sandstone	95	2,204
Dark brown sandstone with soft shale and white lime	10	2,214
Brown, medium-grained sandstone with red quartz pebbles	15	2,229
Pink, medium-grained sandstone with coarse yellow quartz grains	20	2,249
Hard, dark black shale with flint and pyrites	20	2,269

Well ST-40-24-301

Owner: Leroy-Tours-Gerald Water Supply Corp.
Driller: Layne Texas Co.

Topsoil	50	50
Brown shale, lime	108	158
Shale and lime	102	260
Chalk and lime	94	354
Hard lime	82	436
Lime and shale	114	550
Shale	446	996
Hard lime	447	1,443
Shale and lime	432	1,875
Shale and sand	291	2,166
Hard lime	459	2,625
Hard lime	28	2,653
Sand	190	2,843
Hard rock	20	2,863

Well ST-40-24-401

Owner: McLennan County WCID No. 2
Driller: J. L. Myers Sons

Surface	51	51
Clay	33	84
Rock	3	87
Rock	116	203
Austin chalk with shale streaks	104	307
Shale and lime streaks	122	429
Hard, Eagle Ford shale	140	569

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-24-401—Continued		
Lime	68	637
Hard shale	21	658
Sticky shale	5	663
Lime with streaks hard shale	49	712
Shale	8	720
Lime	196	916
Lime with shale streaks	45	961
Lime	135	1,096
Shale and broken lime	73	1,169
Lime with shale streaks	135	1,304
Lime and sand	5	1,309
Sand	2	1,311
Sand with streaks of lime	18	1,329
Lime	25	1,354
Sand	8	1,362
Lime	98	1,460
Lime - sandy iron - shale streaks	85	1,545
Lime	42	1,587
Lime with streaks of sticky shale	78	1,665
Lime	21	1,686
Lime - shale - sandy shale breaks	85	1,771
White shale - lime breaks	22	1,793
Lime	1	1,794
Shale	26	1,820
Lime and shale	52	1,872
Shale - streaks sandy shale and lime	117	1,989
Lime - shale streaks	43	2,032
Shale - streaks sandy shale and lime	77	2,109
Lime and shale	80	2,189
Shale	11	2,200
Lime and shale	70	2,270

Well ST-40-24-701

Owner: Lacy-Lakeview School
Driller: J. L. Myers Sons

Surface soil	6	6
Gravel and sand	34	40
Broken shale	310	350
Shale	300	650
Lime	10	660
Shale	90	750
Broken lime and shale	470	1,220
Broken sand and lime	755	1,975
Lime rock	110	2,085
Trinity sand	209	2,294
Conglomerate and red bed	29	2,323

Well ST-40-24-703

Owner: McLennan County WCID No. 2
Driller: J. L. Myers Sons

Surface soil	4	4
Clay	56	60
Shale	125	185
Shale - chalk rock	140	325
Shale	434	759
Lime	555	1,314
Broken lime	571	1,885
Sand and shale	210	2,095
Sand	49	2,144
Red bed	21	2,165
Shale	35	2,200
Sand and shale	46	2,246
Sand	102	2,348

Well ST-40-24-704

Owner: Youngblood and Flowers
Driller: J. L. Myers Sons

No record	33	33
Shale	44	77
Chalk rock	25	102
Lime	189	291
Rock	219	510
Shale	44	554
Lime and shale	1,520	2,074
Sandy shale	21	2,095
Sand	258	2,353

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

Well ST-40-24-801

Owner: State of Texas
Driller: Layne Texas Co.

	THICKNESS (FEET)	DEPTH (FEET)
Soil	2	2
Sandy clay	9	11
Sand and gravel	8	19
Hard, blue shale	123	142
Chalk	70	212
Chalk and shale	189	401
Black shale	192	593
Shale and chalk	48	641
Black shale	71	712
Hard shale and lime	78	790
Gray lime and shale	34	824
Lime	47	871
Lime and shale	264	1,135
Shale and lime	648	1,783
Lime and layers of shale	76	1,859
Lime, shale, anhydrite	114	1,973
Gray sand and layers of shale	48	2,021
Hard shale	4	2,025
Hard shale and lime	66	2,091
Hard, sandy shale and lime	14	2,105
Hard shale and lime	65	2,170
Hard shale	5	2,175
Hard, fine, red sand	15	2,190
Brown shale and layers of sand	42	2,232
Fine, gray sand	6	2,238
Sand and layers shale	10	2,248
Good sand	33	2,281
Sand and thin layers of shale (good)	27	2,308
Shale and hard sand	16	2,324
Good sand	30	2,354
Hard, blue and brown shale	46	2,400

Well ST-40-24-802

Owner: State of Texas
Driller: Layne Texas Co.

	THICKNESS (FEET)	DEPTH (FEET)
Soil	3	3
Sandy clay	6	9
Gravel and sand	4	13
Yellow clay	22	35
Hard, blue shale	108	143
Blue shale and chalk	23	166
Chalk	149	315
Chalk and blue shale	86	401
Blue shale	86	487
Black shale	140	627
Black shale and lime	26	653
Black shale	49	702
Shale and lime	93	795
Lime	20	815
Lime and shale	369	1,184
Shale and lime	613	1,797
Lime and layers of shale	62	1,859
Shale and lime	116	1,975
Shale, lime, and sand	11	1,986
Sand and shale (Glen Rose)	40	2,026
Hard shale	8	2,034
Hard, sandy shale and lime	68	2,102
Shale and lime	75	2,177
Sand and shale	20	2,197
Hard shale with thin layers of fine sand	21	2,218
Sand (few shale breaks)	18	2,236
Hard, sticky shale	6	2,242
Hard shale, thin layers sand	19	2,261
Sand	19	2,280
Sand and layers of shale	52	2,332
Sand (good)	25	2,357
Sand and shale	9	2,366
Shale	4	2,370

Well ST-40-24-803

Owner: State of Texas
Driller: Layne Texas Co.

	THICKNESS (FEET)	DEPTH (FEET)
Soil	15	15
Sand	30	45
Blue shale and yellow clay	57	102
Blue shale	91	193

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-24-803—Continued		
Lime and shale	57	250
Lime	174	424
Lime and shale	110	534
Shale	141	675
Hard lime	24	699
Shale and lime	179	878
Lime and shale	402	1,280
Shale and lime	386	1,666
Lime and shale	334	2,000
Sandy shale and layers of sand and shale	20	2,020
Sandy shale	17	2,037
Sandy shale and layers of lime and shale	61	2,098
Shale and sandy shale	71	2,169
Lime and shale and sand breaks	26	2,195
Hard shale and lime and sand breaks	37	2,232
Hard shale and lime	31	2,263
Blue and red shale	9	2,272
Layers of sand and shale	40	2,312
Hard shale and lime	19	2,331
Hard sand	27	2,358
Sand and shale breaks	27	2,385
Sand	30	2,415
Hard, sandy shale	11	2,426
Hard, sandy shale and lime	26	2,452
Hard lime and shale	17	2,469
Blue and red shale and lime	11	2,480
Sand	7	2,487
Hard shale and sand breaks	7	2,494

Well ST-40-28-301

Owner: Pete Palasota, Jr.
Driller: Frank Baker Place

Soil and yellow clay (hard)	22	22
Blue rock	38	60
White lime (first water)	62	122
Broken, white lime and blue shale	153	275
White rock	30	305
Blue shale and soapstone	60	365
Paluxy sand (second water)	5	370
Black shale	5	375
White rock and lime	85	460
Third strong water	10	470
White lime rock	30	500

Well ST-40-29-802

Owner: City of Crawford
Driller: Frank Baker Place

Soil	5	5
Rock and clay	14	19
Blue rock	39	58
White lime (water)	34	92
Lime and shale	216	308
White lime	26	334
Soapstone	31	365
White rock sand (water)	3	368
Shale	5	373
White lime	87	460
Soft lime (water)	10	470
Lime	436	906
Green, sandy shale	4	910
Black shale	2	912
Sand	4	916
Hard lime	4	920
Trinity sand	42	962

Well ST-40-29-805

Owner: City of Crawford
Driller: Fulton T. Place

Chunk rock and dirt	6	6
Clay and chunk rock	10	16
Blue rock with lime and shale breaks	319	335
Paluxy sand	2	337
Glen Rose lime	572	909
Trinity sand	32	941

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

Well ST-40-30-201

Owner: Boots Yankie
Driller: Hervey Meadows and Son Well Driller

	THICKNESS (FEET)	DEPTH (FEET)
Soil	3	3
White limestone	9	12
Yellow clay	8	20
Gray limestone	85	105
Gray shale	30	135
White limestone	100	235
Gray shale	80	315
Black shale	90	405
Gray shale	20	425
White limestone (Glen Rose)	565	990
Hensell sand	70	1,060

Well ST-40-30-202

Owner: Baylor University Recreation Camp
Driller: Hervey Meadows and Son Well Driller

Soil	4	4
Blue limestone	16	20
Gray limestone	100	120
White limestone	95	215
White limestone and black shale	235	450
White limestone	550	1,000
Trinity sand (Hensell)	75	1,075

Well ST-40-30-301

Owner: U.S. Army Corps of Engineers
Driller: Ward and Ward Drilling Co.

Topsoil	3	3
Gravel	4	7
Limestone	68	75
Shale	6	81
Soft limestone	34	115
Limestone	194	309
Blue shale	49	358
Limestone	142	500
Shale and limestone	124	624
Limestone	295	919
Soft limestone	121	1,040

Well ST-40-30-301—Continued

Sand	10	1,050
Shale	16	1,066
Sand	60	1,126

Well ST-40-30-302

Owner: U.S. Army Corps of Engineers
Driller: Ward and Ward Drilling Co.

Topsoil	5	5
Clay	7	12
Shale	10	22
Lime and shale	43	65
Lime	371	436
Lime and shale	54	490
Limestone	32	522
Soft limestone	161	683
Limestone	253	936
Sandy limestone	15	951
Shale	51	1,002
Limestone	52	1,054
Sand	9	1,063
Trinity water sand	77	1,140

Well ST-40-30-603

Owner: Speegleville School
Driller: J. L. Myers Sons

Surface soil	6	6
Clay	14	20
Gravel	3	23
Clay	17	40
Lime	48	88
Broken lime	98	186
Lime	114	300
Broken lime	760	1,060
Broken lime and sand	38	1,098
Sand and lime streaks	19	1,117
Broken sand	11	1,128
Hard sand	18	1,146

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

Well ST-40-30-604

Owner: U.S. Army Corps of Engineers
Driller: Ward and Ward Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	4	4
Gravel	26	30
Limestone	145	175
Soft limestone	87	262
Hard limestone	141	403
Shale and rock	564	967
Soft limestone	115	1,082
Sand	89	1,171

Well ST-40-30-605

Owner: Bud Curtain
Driller: Hervey Meadows and Son Well Driller

Black soil	4	4
Yellow clay	13	17
White rock	13	30
Blue rock	42	72
White rock	59	131
Hard, white rock	189	320
Blue shale	55	375
White rock	20	395
Black shale	65	460
Glen Rose lime	610	1,070
Trinity sand	50	1,120

Well ST-40-30-606

Owner: Dr. Paul C. Murphy
Driller: Hervey Meadows and Son Well Driller

Soil	4	4
White rock	5	9
Yellow clay	12	21
White rock	11	32
Blue rock	58	90
White rock	215	305
Hard, blue rock	65	370
White lime	20	390
Black shale	80	470
Glen Rose lime	590	1,060
Trinity sand	70	1,130

Well ST-40-30-607

Owner: E. M. Davis
Driller: Hervey Meadows and Son Well Driller

Soil	3	3
Yellow clay, little gravel	14	17
White rock	14	31
Blue rock	64	95
White rock	70	165
Hard, blue-brown rock	205	370
Blue shale	25	395
White rock	20	415
Black shale	55	470
Glen Rose lime	600	1,070
Green shale	7	1,077
Trinity sand	53	1,130

Well ST-40-30-901

Owner: M. M. O'Dowd
Driller: J. L. Myers Sons

Surface soil	3	3
Clay, gravel	12	15
Lime	37	52
Lime, shale	123	175
Broken lime	97	272
Lime and shale	608	880
Broken lime	83	963
Lime	9	972
Sandy lime	12	984
Lime	46	1,030
Sand	59	1,089
Broken lime	96	1,185
Red bed	12	1,197
Broken sand	32	1,229
Sandy lime	13	1,242
Sand	9	1,251
Sandy lime	19	1,270
Sand	22	1,292
Clay	20	1,312
Broken sand	23	1,335
Black shale	25	1,360

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

Well ST-40-31-101

Owner: City of Waco
Driller: Layne Texas Co.

	THICKNESS (FEET)	DEPTH (FEET)
Black surface soil	5	5
Yellow clay and sand	16	21
Hard, lime rock	4	25
Hard, gray shale	73	98
Hard, gray lime	64	162
Hard, gray lime streaks and gray shale	97	259
Hard sand and shell	3	262
Hard, gray lime rock and gray shale	12	274
Hard, gray lime	159	433
Hard, gray shale and gray lime	250	683
Hard, gray lime and gray shale	124	807
Soft, gray shale and gray shale	3	810
Hard, gray lime	96	906
Crystalized shale and lime and gray shale	3	909
Hard, gray lime	103	1,012
Hard, gray lime, thin streaks hard sand and shale (very rough)	49	1,061
Hard, gray shale and gray lime	142	1,203
Fine, gray sand - cut good	27	1,230
Fine, gray sand, streaks	10	1,240
Hard, gray shale and lime, streaks of fine sand	27	1,267
Hard, gray shale	52	1,319
Fine, gray sand	19	1,338
Hard, gray shale and lime, streaks of gray sand	19	1,357
Hard, gray lime rock	4	1,361
Fine, gray sand	5	1,366
Hard, pink shale and lime streaks	21	1,387
Hard, gray shale and lime	9	1,396
Broken sand and shale	37	1,433
Hard shale	5	1,438
Broken sand and shale	31	1,469
Sand	21	1,490
Hard lime and sand	8	1,498
Hard lime and lime streaks	87	1,585
Hard lime and shale	15	1,600

Well ST-40-31-101—Continued

Well ST-40-31-102

Owner: City of Waco
Driller: Layne Texas Co.

	THICKNESS (FEET)	DEPTH (FEET)
Black surface soil	5	5
Yellow clay and sand	16	21
Hard, lime rock	5	26
Hard, gray shale	26	52
Lime rock (very hard)	5	57
Sandy clay	5	62
Hard, gray shale	27	89
Hard, brown lime and gray shale	64	153
Hard, gray shale and hard lime	121	274
Lime shell and lime rock	15	289
Hard, gray lime rock	3	292
Hard, gray lime and gray shale	465	757
Shale and sand streaks and gray shale	4	761
Hard, gray lime	139	900
Hard, gray lime rock	8	908
Shale, sand streaks	6	914
Hard, gray lime and hard, gray shale	80	994
Hard, gray lime rock	17	1,011
Hard, gray shale, streaks of lime	67	1,078
Hard, gray lime and hard, gray shale	48	1,126
Sand, streaks of shale	4	1,130
Hard, gray lime rock	39	1,169
Hard, gray lime, layers shale	18	1,187
Sand (cut good)	3	1,190
Hard lime	2	1,192
Fine, gray sand (cut good)	20	1,212
Fine, gray sand, lime and shale	10	1,222

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

Well ST-40-31-102—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Hard, lime rock	2	1,224
Hard, gray shale, streaks sand and lime	31	1,255
Hard, gray shale and lime	60	1,315
Fine, gray sand and streaks sand and lime	15	1,330
Hard shale and lime	12	1,342
Hard, gray shale and lime	37	1,379
Sand, shale streaks	10	1,389
Hard, gray shale and lime	19	1,408
Sand, broken with shale and lime	20	1,428
Hard shale	10	1,438
Sand (cut good)	18	1,456
Sand, hard lime and shale	19	1,475
Hard, gray lime	4	1,479
Hard, gray and pink shale and lime	21	1,500
Hard, gray lime and shale with streaks of hard, fine sand	40	1,540

Well ST-40-31-402

Owner: U.S. Army Corps of Engineers
Driller: Ward and Ward Drilling Co.

Topsoil	5	5
Clay	12	17
Gravel	7	24
Gray shale	66	90
Limestone	462	552
Soft limestone	422	974
Shale	21	995
Limestone	127	1,122
Trinity water sand	62	1,184

Well ST-40-31-403

Owner: U.S. Army Corps of Engineers
Driller: Ward and Ward Drilling Co.

Topsoil	6	6
Gravel	14	20
Clay	10	30
Shale	4	34
Limestone	306	340

Well ST-40-31-403—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Shale	76	416
Limestone	542	958
Soft limestone	135	1,093
Sand	99	1,192

Well ST-40-31-501

Owner: City of Waco
Driller: J. L. Myers Sons

Rock	146	146
Rock and shale	466	612
Lime	520	1,132
No record	110	1,242
Lime and shale	121	1,363
Lime	156	1,519
No record	80	1,599
Lime	65	1,664
Sand	26	1,690
Sandy lime	34	1,724
Lime	51	1,775
No record	55	1,830
Lime	4	1,834
Sandy lime	16	1,850
Lime	46	1,896
Sand	14	1,910
Shale	12	1,922
Sandy lime	48	1,970
Sand and lime	78	2,048
Shale	12	2,060
Lime and shale	51	2,111
Sandy lime	40	2,151

Well ST-40-31-503

Owner: City of Waco
Driller: E. B. Case

Black soil	5	5
White shale rock and chalk	20	25
Blue-gray lime rock, solid	80	105
Brown lime rock, very hard	10	115
Light gray lime rock, solid	70	185
Nearly white rock	40	225

Table 3.--Drillers' Logs of Selected Wells in McLennan County--Continued

Well ST-40-31-503--Continued

	THICKNESS (FEET)	DEPTH (FEET)
Blue rock	225	450
Blue soapstone or slate	300	750
White rock with shale, gray mud	200	950
Soapstone (slate)	15	965
White rock	35	1,000
White rock with shale, gray mud	95	1,095
White, hard rock	555	1,650
Honeycomb rock, Trinity sand	52.8	1,702.8

Well ST-40-31-504

Owner: City of Waco
Driller: Layne Texas Co.

Black soil	4	4
Yellow clay	2	6
Rock	16	22
Blue shale	2	24
Chalk	121	145
Hard shale	29	174
Lime and hard shale	95	269
Hard, blue shale	113	382
Hard, gray shale	178	560
Lime and hard shale	1,051	1,611
Sandy shale	16	1,627
Sandy shale and lime	67	1,694
Lime	6	1,700
Sandy shale	9	1,709
Sticky shale	15	1,724
Fine sand and shale	24	1,748
Shale and sand layers	38	1,786
Sand and lime layers	39	1,825
Hard, sandy shale	39	1,864
Sand and shale layers	16	1,880
Hard shale	22	1,902
Sand and red shale	7	1,909
Sand and hard shale	4	1,913
Sand with red and blue layers	56	1,969
Sand and shale layers	27	1,996

Well ST-40-31-504--Continued

	THICKNESS (FEET)	DEPTH (FEET)
Sand with red and blue shale layers	59	2,055
Hard, sandy shale	5	2,060
Sand	11	2,071
Shale	29	2,100
Hard, sandy shale	16	2,116
Hard sand	14	2,130
Shale	4	2,134
Sandy shale	16	2,150

Well ST-40-31-602

Owner: Concord Laundry
Driller: J. L. Myers Sons

Sand and gravel	2	2
White dirt	8	10
Gravel and sand	8	18
Rock and shale	177	195
Sandy shale	31	226
Shale	264	490
Lime	61	551
Rock	77	628
Lime	118	746
No record	236	982
Sandy lime and shale	278	1,260
Sandy shale and lime	18	1,278
Lime	256	1,534
Sandy lime	70	1,604
Lime and shale	63	1,667
Lime	57	1,724
Sandy	39	1,763
Sand and lime	52	1,815
Sandy lime	41	1,856
Lime	63	1,919
Sand	52	1,971
Sand	117	2,088
Lime	6	2,094

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

Well ST-40-31-605

Owner: — Gray
Driller: — Bell

	THICKNESS (FEET)	DEPTH (FEET)
Soil and gravel	23	23
Austin chalk and lime	137	160
Blue marl and shale	460	620
Limestone and marl	380	1,000
Soft, blue shale	200	1,200
Soft lime with mineral water	75	1,275
Hard, white lime	425	1,700
Hard lime, water, shale breaks	100	1,800
White sand, water-bearing	50	1,850
Shale and shell	120	1,970
Sand with second water	213	2,183
Red, blue shale with hard shell	80	2,263

Well ST-40-31-702

Owner: Midway Water Co.
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Surface soil	2	2
Chalk rock	121	123
Chalk	108	231
Shale	242	473
Lime	105	578
Lime and shale	715	1,293
Lime and shale streaks	84	1,377
Sandy lime	58	1,435
Broken lime and shale	186	1,621
Lime	7	1,628
Sand and shale	14	1,642
Shale and lime	67	1,709
Sand and sand rock	30	1,739
Shale	30	1,769
Sand	4	1,773
Shale	29	1,802
Sand	32	1,834
Sandy lime	31	1,865
Sand	55	1,920
Sandy lime	16	1,936

Well ST-40-31-705

Owner: U.S. Army Corps of Engineers
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Surface soil	13	13
Rock	33	46
Shale	138	184
Lime and shale	1,041	1,225
Sand with streaks of shale	59	1,284
Shale	14	1,298

Well ST-40-31-706

Owner: U.S. Army Corps of Engineers
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Surface soil	3	3
Sandy chalk	28	31
Lime and shale	149	180
Lime	232	412
Lime and shale	659	1,071
Shale	184	1,255
Sand with streaks of shale	33	1,288
Sand	14	1,302
Shale	2	1,304
Sand	8	1,312
Shale	17	1,329

Well ST-40-31-802

Owner: Bryan-Maxwell-Bryan
Driller: Layne Texas Co.

	THICKNESS (FEET)	DEPTH (FEET)
Soil	3	3
Chalk	183	186
Shale	347	533
Lime	55	588
Lime and shale	44	632
Lime	904	1,536
Shale	14	1,550
Shale and lime	14	1,564
Lime	27	1,591
Sand, lime and shale	31	1,622
Soft sand	20	1,642
Sand and lime	10	1,652
Sand, soft	17	1,669

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-31-802—Continued		
Sand and lime	25	1,694
Sand and lime	6	1,700
Shale	14	1,714
Shale and layers of sandy shale	20	1,734
Shale	30	1,764
Shale and sand	6	1,770
Shale and red bed	17	1,787
Sand	18	1,805
Sand, lime and shale	4	1,809
Sand, shale and red bed	16	1,825
Shale	22	1,847
Sandy shale	3	1,850
Shale	6	1,856
Sand	16	1,872
Sand and shale	34	1,906
Sand	12	1,918
Shale	5	1,923
Sand	37	1,960
Shale	4	1,964
Sand and shale breaks	7	1,971
Shale (hard)	8	1,979
Shale (sandy)	29	2,008
Shale	12	2,020
Sandy shale	9	2,029
Shale (hard)	11	2,040
Well ST-40-31-804		
Owner: Midway Water Co. Driller: J. L. Myers Sons		
Surface soil	9	9
Chalk rock	159	168
Shale	292	460
Broken lime	114	574
Lime	66	640
Broken lime	35	675
Lime	142	817
Broken lime	798	1,615
Broken sand	49	1,664
Broken shale	47	1,711
Broken lime	55	1,766
Broken sand	98	1,864
Shale	6	1,870
Well ST-40-31-902		
Owner: City of Waco Driller: Fowler Construction		
No record	1,808	1,808
Sandstone	54	1,862
Shale	4	1,866
Sandstone	28	1,894
Limestone	12	1,906
Gravel	3	1,909
Sandstone	171	2,080
Black sand	131	2,211
Rock	59	2,270
Red shale	82	2,352
Shale	8	2,360
Rock	50	2,410
Well ST-40-32-102		
Owner: City of Bellmead Driller: Layne Texas Co.		
Soil and clay	15	15
Gravel	5	20
Shale	10	30
Blue shale	54	84
Shale and lime	220	304
Shale	264	568
Shale and lime streaks	123	691
Lime	25	716
Lime and shale	48	764
Lime and hard shale	37	801
Lime and shale	429	1,230
Soft lime and shale	198	1,428
Shale and lime	432	1,860
Shale and sandy shale	25	1,885
Sand and sandy shale breaks	40	1,925

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-32-102--Continued		
Hard shale	51	1,976
Lime and shale	18	1,994
Hard shale and lime	33	2,027
Hard shale	23	2,050
Shale and lime	59	2,109
Shale and sand	26	2,135
Hard shale	4	2,139
Sand and shale layers	9	2,148
Hard sand	10	2,158
Sand, thin shale layers	27	2,185
Hard shale	8	2,193
Sandy shale	24	2,217
Sand and shale breaks	15	2,232
Hard shale	16	2,248
Sand	12	2,260
Broken sand	22	2,282
Hard, sandy shale	14	2,296
Hard shale	7	2,303
Well ST-40-32-103		
Owner: City of Bellmead Driller: J. L. Myers Sons		
Surface	8	8
Clay	12	20
Gravel	31	51
Shale	16	67
Shale and lime	58	125
Lime	296	421
Shale	349	770
Lime	230	1,000
Broken lime	28	1,028
Shale and lime	181	1,209
Broken lime	85	1,294
Shale and lime	50	1,344
Lime	36	1,380
Lime and sand	35	1,415
Lime	18	1,433
Lime and sand	35	1,415
Lime	18	1,433
Well ST-40-32-103—Continued		
Broken lime	45	1,478
Sand	13	1,491
Broken lime and sand	94	1,585
Lime	211	1,796
Broken lime	94	1,890
Sand	70	1,960
Broken sand	41	2,001
Lime and shale	77	2,078
Sand and shale	102	2,180
Broken sand	140	2,320
Shale	21	2,341
Broken sand	29	2,370
Lime	26	2,396
Well ST-40-32-104		
Owner: City of Lacy-Lakeview Driller: J. L. Myers Sons		
Surface soil and gravel	38	38
Shale	687	725
Chalk rock	169	894
Shale	76	970
Shale	10	980
Broken lime	70	1,050
Shale and lime	780	1,830
Shale	263	2,093
Shale and red bed	67	2,160
Broken sand	43	2,203
Sand and shale	126	2,329
Well ST-40-32-201		
Owner: Frank B. Tirey Driller: J. L. Myers Sons		
No record	48	48
Shale	227	275
Lime	225	500
Shale	100	600
No record	152	752
Shale	188	940
Lime and shale	168	1,108
Lime	178	1,286

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-32-201—Continued		
No record	191	1,477
Lime and shale	123	1,600
Lime	176	1,776
Lime and shale	102	1,878
Lime	174	2,052
Lime and shale	58	2,110
Lime	57	2,167
Sandy lime	71	2,238
Sandy shale	89	2,327
Lime	21	2,348
Sand	115	2,463
Broken sand and shale	48	2,511
Well ST-40-32-403		
Owner: General Tire and Rubber Co. Driller: Layne Texas Co.		
Sandy clay	13	13
Sand and gravel	5	18
Gravel, thin shale breaks	4	22
Shale	101	123
Chalk and shale	123	246
Chalk	39	285
Shale and sandy shale	95	380
Shale	271	651
Shale and lime	40	691
Lime	317	1,008
Shale and sandy shale	123	1,131
Hard lime	15	1,146
Shale and lime	130	1,276
Lime	50	1,326
Lime and shale	143	1,469
Sandy shale and lime	25	1,494
Hard shale and lime	95	1,589
Lime and shale	290	1,879
Sandy shale and lime	9	1,888
Glen Rose sand	37	1,925
Hard, sandy shale	16	1,941
Hard shale	104	2,045
Shale, layers of sand	39	2,084
Layers of shale and fine sand	30	2,114
Sand, thin layers of shale	26	2,140
Hard shale	7	2,147
Sand (good)	21	2,168
Layers of sand and shale	36	2,204
Sand and thin shale breaks	40	2,244
Hard shale	13	2,257
Sand	8	2,265
Hard shale	14	2,279
Sand (hard)	8	2,287
Hard shale	5	2,292
Sand	4	2,296
Hard shale	16	2,312
Well ST-40-32-404		
Owner: General Tire and Rubber Co. Driller: Layne Texas Co.		
Soil and clay	5	5
Gravel and sandy clay	17	22
Shale	41	63
Shale and hard layers	27	90
Shale and chalk	34	124
Chalk	51	175
Chalk and shale	60	235
Shale	31	266
Shale	9	275
Lime and shale	65	340
Blue shale and lime	75	415
Hard lime	5	420
Shale and sandy shale	75	495
Shale and lime	22	517
Shale and sand	35	552
Shale and sandy shale	53	605
Sandy shale and gravel	38	643
Shale and lime	52	695
Lime	210	905
Hard lime and shale	154	1,059
Shale and lime	21	1,080

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-32-404—Continued		
Sandy shale and shale	60	1,140
Shale and lime	48	1,188
Shale and sandy shale	22	1,210
Lime and shale	260	1,470
Sandy lime and shale	53	1,523
Shale and sandy lime	143	1,666
Hard, sandy lime	21	1,687
Hard lime and shale	129	1,816
Shale and lime	33	1,849
Shale and sandy shale	54	1,903
Sandy shale and sand	77	1,980
Black shale	33	2,013
Sandy lime	15	2,028
Hard shale and lime	65	2,093
Red and blue shale with sand breaks	25	2,118
Hard shale	10	2,128
Hard shale and sandy shale	36	2,164
Sand	5	2,169
Shale	9	2,178
Sand and layers of shale	38	2,216
Sand and hard layers	92	2,308
Hard shale	16	2,324
Hard, sandy shale	17	2,341
Sandy shale and sand	18	2,359
Sand and shale layers	15	2,374
Shale	2	2,376
Well ST-40-32-405		
Owner: Texas Power and Light Co. Driller: Hill, Green, Dearing and Son		
Surface	40	40
Hard, white rock mixed with layers of blue shale	192	232
Bluish shale, medium hard	186	418
Hard, white rock, including lump of extra hard white rock found in layers	217	635
Hard, white rock	245	880
Hard, white rock	115	995
Medium hard, white rock	3	998

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-32-405—Continued		
Medium hard, light bluish rock	2	1,000
Blue shale, medium hard	25	1,025
Hard, white rock	50	1,075
Medium hard rock and light blue shale	95	1,170
Medium hard, blue shale	60	1,230
Hard, white rock	85	1,315
Hard, white rock, lump without cavings was balled up to the end of the bit	45	1,360
Hard, white rock	105	1,465
Medium hard, white rock	32	1,497
Hard, white rock	73	1,570
Medium hard, white rock, some water	25	1,595
Hard, white rock	13	1,608
Medium hard, white rock	50	1,658
Medium hard, white rock, balled up on end of drill	6	1,664
Medium hard, white rock	26	1,690
Medium hard, white rock, with red particles	24	1,714
Medium hard and some fairly hard, white rock with little water	26	1,740
Traces of sand at 1,775 ft to 1,783 ft	40	1,780
Sand rock	5	1,785
Sand rock, bluish gray and white marl	25	1,810
Gray sand, with red specks, water sand	30	1,840
Light gray sand, with layers sand rock, bluish gray	6	1,846
Shale, close and sticky	84	1,930
Alternate layers lime rock and light blue shale	8	1,938
Blue marl, sandy, sticky	2	1,940
Hard, bluish gray sand rock, very hard	8	1,948
Red shale, fine sand, little water	10	1,958

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

Well ST-40-32-405—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Red water sand, very fine, mixed with red, green, and blue shale, with hard layers of gray sand or lime rock	76	2,034
Water sand, flows 150,000 gallons daily	14	2,048
Water sand of better quality, but mixed with red and blue shale and layers of lime rock, flows 450,000 gallons daily	52	2,100
Layers of dirty white lime and red shale	8	2,108
Coarse, water sand, well flowed 800,000 gallons daily	30	2,138
Fine water sand, mixed with gray shale	9	2,147

Well ST-40-32-501

Owner: City of Waco
Driller: J. L. Myers Sons

Surface soil and gravel	40	40
Shale	160	200
Rock	160	360
Chalk	100	460
Shale	317	777
Lime	388	1,165
Shale	147	1,312
Lime	56	1,368
Broken lime	151	1,519
Lime	404	1,923
Sandy shale	101	2,024
Shale	66	2,090
Lime	94	2,184
Broken lime	46	2,230
Broken sand	170	2,400
Sand	50	2,450
Broken shale	43	2,493

Well ST-40-32-502

Owner: City of Waco
Driller: J. L. Myers Sons

Gravel and clay	10	10
Sand	14	24

Well ST-40-32-502—Continued

Clay	31	55
Shale	205	260
Lime	165	425
Shale and shell	163	588
Shale	287	875
Lime with shale	299	1,174
Lime and shale	366	1,540
Lime	98	1,638
Lime and shale	83	1,721
Lime	196	1,917
Lime and shale	71	1,988
Lime	56	2,044
Sandy lime and shale	155	2,199
Sandy lime	49	2,248
Lime	32	2,280
Sand	57	2,337
Broken lime	63	2,400
Sand	18	2,418
Lime	50	2,468
Sand	32	2,500

Well ST-40-37-501

Owner: City of McGregor
Driller: Hervey Meadows and Son Well Driller

Soil	3	3
Clay and rock	22	25
Blue rock	15	40
Blue shale	60	100
White lime	40	140
White lime	260	400
Glen Rose	580	980
Loose sand	70	1,050
Sand, shale, lime, red bed, pyrite, and sediments	290	1,340

Well ST-40-37-602

Owner: City of McGregor
Driller: Layne Texas Co.

Black soil	3	3
Sandy chalk	17	20

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-37-602—Continued		
Broken lime	98	118
Hard lime	37	155
Shale and lime	26	181
Hard lime rock	1	182
Broken lime	7	189
Lime	25	214
Broken lime	21	235
Blue shale	13	248
Shale and hard layers	19	267
Broken layers rock	4	271
Shale and lime	99	370
Lime and shale	79	449
Sandy lime	66	515
Lime and shale	18	533
Sandy lime	117	650
Lime and shale	10	660
Lime	33	693
Lime and shale	102	795
Lime	103	898
Sandy lime	46	944
Sandy lime and shale	13	957
Sandy shale	25	982
Sand	32	1,014
Shale and layers of sand	38	1,052
Red bed	11	1,063
Fine, white sand	9	1,072
Hard, blue shale	18	1,090
Hard shale	15	1,105
Shale, lime, and red bed	31	1,136
Shale and sandy shale	14	1,150
Lime	10	1,160
Sandy shale	20	1,180
Shale	23	1,203
Blue shale	47	1,250

Well ST-40-37-603

Owner: City of McGregor
Driller: Hervey Meadows and Son Well Driller

Soil	1	1
Rock	8	9
Clay	4	13
White rock	9	22
Blue rock	33	55
White lime	60	115
Hard sand (little water)	11	126
Edwards lime	54	180
Gray shale	20	200
White lime	60	260
Blue shale	54	314
Shale	2	316
Lime shale	34	350
White lime	82	432
Water sand	5	437
Glen Rose lime	453	890
Gray shale	10	900
Lime rock	68	968
Sand	50	1,018
Black shale	10	1,028

Well ST-40-37-604

Owner: North American Rockwell Corp., Rocketdyne Div.
Driller: Layne Texas Co.

Black soil	4	4
Rock	11	15
Hard and soft gray lime	125	140
White lime	60	200
Shale and lime	18	218
Gray lime	52	270
Shale	15	285
Lime and shale	85	370
Sandy lime	16	386
Blue shale and lime	32	418
Gray lime	14	432
Blue shale	13	445
Lime	23	468
Water sand	12	480
White lime	56	536

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-37-604—Continued		
Lime and breaks of shale	42	578
Shale	3	581
Hard lime	35	616
Shale	9	625
Lime and shale	53	678
Sandy lime	12	690
Lime	12	702
Shale	8	710
Lime	6	716
Shale	8	724
Lime	16	740
Shale	23	763
Lime (Glen Rose)	12	775
Hard, sandy lime, water	30	805
Lime	14	819
Shale	4	823
Hard lime and shale	28	851
Gray lime and shale	11	862
Hard lime	52	914
Soft lime	4	918
Lime and shale	5	923
Shells and shale	7	930
Lime	19	949
Hard shells and shale	12	961
Water - sand	54	1,015
Shale	29	1,044
Well ST-40-37-801		
Owner: North American Rockwell Corp., Rocketdyne Div. Driller: Layne Texas Co.		
Rock and white lime	7	7
Lime, shell, and clay	13	20
Blue-gray lime	12	32
Gray lime and shale	88	120
Dark and white lime	5	125
Hard, white lime	17	142
Dark white lime	6	148
Hard, gray lime	39	187
Gray lime and shale	23	210
Hard, gray lime	38	248
White lime and shale	9	257
Dark gray shale and lime	28	285
Blue shale and breaks of lime	36	321
Hard, gray lime	14	335
Blue shale and lime	9	344
Hard, gray lime	27	371
Blue shale and lime shells	22	393
Hard lime and shells	47	440
Gray, sandy lime	28	468
White shale and gray lime	35	503
Blue shale and lime	7	510
Gray, sandy lime	51	561
Dark gray shale and lime	8	569
Gray lime and shale	33	602
Light gray, sandy lime	33	635
Broken sand	16	651
Gray, sandy lime	49	700
Soft, shell lime	18	718
Light, sandy lime - soft shell	34	752
Hard, sandy lime	46	798
Hard lime and shale	14	812
Gray, sandy lime	18	830
Gray shale and lime	80	910
Gray, sandy shale	11	921
Hard, gray lime	6	927
Gray shale and lime	19	946
Hard gray lime	20	966
Green shale	5	971
First Trinity water sand	51	1,022
Sandy shale	25	1,047
Gray, sandy lime	18	1,065
Fine, sandy lime	13	1,078
Gray lime	11	1,089
Dark, sandy lime	24	1,113
Dark, cave shale and lime	77	1,190

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

Well ST-40-37-802

Owner: North American Rockwell Corp., Rocketdyne Div.
Driller: Layne Texas Co.

	THICKNESS (FEET)	DEPTH (FEET)
Black dirt	1	1
Hard, white lime	22	23
Blue-white lime	12	35
Gray lime and shale	77	112
Light gray lime	38	150
Hard, white lime	18	168
Hard, gray lime	32	200
Gray lime and shale	15	215
Hard, gray lime	30	245
White lime	12	257
Gray lime and shale	33	290
Blue shale and lime	101	391
Hard, gray lime and shale	51	442
Sandy lime and shale	28	470
Hard, gray lime and shale	35	505
White shale and gray lime	28	533
Gray, sandy lime	24	557
Dark gray shale and lime	23	580
Gray lime and shale	15	595
Gray, sandy lime	37	632
Gray, sandy lime and shale	68	700
Soft shale and lime	45	745
Gray, sandy lime	35	780
Gray, sandy lime and shale	80	860
Gray shale and lime	49	909
Gray, sandy lime	10	919
Hard, gray lime and shale	15	934
Green shale and lime	15	949
Gray, sandy lime and green shale	11	960
First Trinity sand	56	1,006
Trinity sand and blue shale	13	1,019
Sandy, blue shale	25	1,044
Gray, sandy lime and shale	2	1,046

Well ST-40-37-803

Owner: North American Rockwell Corp., Rocketdyne Div.
Driller: Layne Texas Co.

	THICKNESS (FEET)	DEPTH (FEET)
Black dirt	4	4
Lime shales and clay	21	25
Gray lime	18	43
Gray lime and shale	24	67
Hard, gray lime	55	122
White lime	28	150
Hard, gray lime	23	173
Gray lime and shale	22	195
Gray shale	20	215
Gray lime and shale	30	245
Light lime and shale	22	267
Dark lime and shale	30	297
Blue shale	33	330
Lime and flintrock	5	335
Hard, blue lime	33	368
Gray lime and shale	107	475
Gray, sandy lime	26	501
Gray lime and shale	99	600
Gray, sandy lime and shale	65	665
Gray lime and shale	135	800
Dark lime and shale	75	875
Gray lime and shale	17	892
Hard, gray lime	23	915
Gray, sandy lime and shale	15	930
Hard, gray lime	25	955
Dark lime and shale	7	962
Trinity sand	30	992
Sand and breaks of shale	21	1,013
Went out of sand at 1,010 ft marking 48 ft of sand	—	—
Dark shale and lime	47	1,060
Red shale	5	1,065
Gray lime and shale	16	1,081
Hard, gray lime	19	1,100
Hard, dark lime[1]	101	1,201

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

Well ST-40-37-804

Owner: North American Rockwell Corp., Rocketdyne Div.
Driller: Layne Texas Co.

	THICKNESS (FEET)	DEPTH (FEET)
Black soil	3	3
Yellow clay	4	7
Hard lime	23	30
Hard lime (gray) and shale	97	127
Hard limestone	5	132
Edwards lime	6	138
White lime	12	150
Hard, gray lime and shale	55	205
Gray shale	5	210
Dark lime and shale	80	290
Blue shale and lime	15	305
Lime and flint rock	10	315
Dark shale	5	320
Lime and shale	45	365
Gray shale and lime	10	375
Sandy lime and shale	10	385
Lime and shale	53	438
Gray shale and lime	32	470
Gray, sandy lime and shale breaks	63	533
Dark lime and shale	7	540
Light lime and shale	15	555
Dark shale and lime	10	565
Sandy lime and shale	135	700
Dark shale and lime	5	705
Gray shale and lime	25	730
Gray, sandy lime and blue shale	90	820
Soft, light, sandy shale	15	835
Dark lime and shale	10	845
Hard, gray lime and shale	31	876
Hard, gray lime	14	890
Gray, sandy lime and shale	30	920
Dark lime and shale	37	957
Trinity sand (good)	100	1,057
Dark shale and lime	5	1,062

Well ST-40-38-301

Owner: H. G. McKethan
Driller: R. C. Smith and Falcon Oil Corp.

	THICKNESS (FEET)	DEPTH (FEET)
Soil	3	3
Clay	7	10
Lime	20	30
Lime and sand	100	130
Lime	283	413
Lime and shale	277	690
Lime	50	740
Shale	20	760
Lime	25	785
Shale and lime	20	805
Shale	30	835
Lime	65	900
Shale	35	935
Lime and shale	60	995
Lime	46	1,041
Sand and shale	81	1,122
Shale	83	1,205
Sandy shale	130	1,335
Shale	148	1,483
Bent shale	19	1,502
Shale	101	1,603

Well ST-40-38-303

Owner: Brazos Concrete Products, Inc.
Driller: C. M. Stoner Drilling Co.

Soil	1	1
Yellow clay and rock	14	15
Blue shale	55	70
White rock	1,090	1,160
Sand	75	1,235
Shale and broken sand	65	1,300
Red bed	10	1,310
Sandy shale	10	1,320
Sand	120	1,440

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

Well ST-40-38-801

Owner: Spring Valley Water Supply Corp.
Driller: C. M. Stoner Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Soil	1	1
Clay and rock	14	15
Blue rock	55	70
Blue shale	60	130
White rock	970	1,100
Shale	23	1,123
Rock	32	1,155
Sand	165	1,320
Sandy shale	40	1,360
Red bed	26	1,386
Sand	34	1,420
Red bed	8	1,428
Sand	22	1,450
Yellow shale	10	1,460

Well ST-40-39-103

Owner: Luther Herring
Driller: Hervey Meadows and Son Well Driller

Soil	3	3
White rock	22	25
Blue rock	15	40
White, hard lime	150	190
Blue-black shale	420	610
White rock	60	670
Blue, hard rock	150	820
Blue, soft shale	90	910
Glen Rose shale	600	1,510
Trinity sand	60	1,570

Well ST-40-39-104

Owner: Midway School
Driller: J. L. Myers Sons

Austin chalk	150	150
Shale	350	500
Lime	70	570
Sand	50	620
Broken sand and lime	150	770
Shale	190	960

Well ST-40-39-104—Continued

Lime and broken shale	260	1,220
Sand and lime (Glen Rose)	180	1,400
Sand	170	1,570
Sand	302	1,872

Well ST-40-39-107

Owner: Universal Atlas Cement Co.
Driller: Texas Water Wells

Chalk rock	25	25
Lime and shale streaks	70	95
Shale	83	178
Sandy shale	38	216
Shale and lime	32	248
Shale and broken lime	86	334
Shale and lime	80	414
Lime	51	465
Broken lime	82	547
Lime and shale streaks	26	573
Lime	241	814
Sand	66	880
Lime	338	1,218
Lime and shale streaks	208	1,426
Shale	74	1,500
Lime	35	1,535
Sandy lime	8	1,543
Sand	130	1,673
Red bed	15	1,688
Sand	80	1,768

Well ST-40-39-203

Owner: Dr. Barnes
Driller: J. L. Myers Sons

Clay	23	23
Limestone	7	30
Limestone and shale	54	84
Chalk rock	135	219
Shale	76	295
Shale and limestone	180	475
Shale	85	560
Limestone	343	903

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-39-203—Continued		
Limestone and shale	117	1,020
Limestone	85	1,105
Limestone and shale	98	1,203
Limestone	265	1,468
No record	139	1,607
Limestone and shale	112	1,719
Limestone	45	1,764
Sandy shale and limestone	67	1,831
Shale	19	1,850
Sandy shale and sand	90	1,940
Sand	100	2,040
Sandy limestone	42	2,082
Well ST-40-39-204		
Owner: C. H. McLemore Driller: C. M. Stoner Drilling Co.		
Soil	3	3
White rock	77	80
Blue shale	205	285
Brown shale	55	340
Sandy shale	80	420
Blue shale	65	485
White rock	1,103	1,588
Sand	62	1,650
Gray shale	88	1,738
Sand	176	1,914
Well ST-40-39-302		
Owner: Waco Memorial Park Driller: J. L. Myers Sons		
Clay	15	15
Clay and shale	25	40
Shale and rock	15	55
No record	70	125
Chalk rock	95	220
Rock and shale	17	237
Shale and lime	119	356
Shale	223	579
Lime	386	965
Lime and shale	38	1,003

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-39-302—Continued		
No record	262	1,265
Broken lime	65	1,330
Lime	20	1,350
Sand	30	1,380
No record	13	1,393
Lime and sandy lime	126	1,519
Broken lime and shale	7	1,526
Sandy lime	152	1,678
Lime	7	1,685
Sand	85	1,770
Shale	17	1,787
Sand	69	1,856
Sand and lime	11	1,867
Sand	198	2,065
Sand with shale	20	2,085
Red bed	11	2,096
Well ST-40-39-503		
Owner: Poweram Oil Co. Driller: C. M. Stoner Drilling Co.		
Soil	1	1
Chunk rock	3	4
White rock	211	215
Blue shale	245	460
White rock	1,120	1,580
Sand	130	1,710
Red bed	10	1,720
Broken sand and sandy shale	75	1,795
Sand	85	1,880
Red bed	15	1,895
Sand	65	1,960
Well ST-40-39-702		
Owner: Lorena Water Supply Corp. Driller: J. L. Myers Sons		
Surface soil (clay)	27	27
Shale	9	36
Chalk rock	39	75
Shale	275	350
Lime	935	1,285

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-39-702—Continued		
Broken lime	125	1,410
Sand	60	1,470
Sand and shale	185	1,655
Sand	85	1,740
Sand and shale	74	1,814
Lime	74	1,888

Well ST-40-39-801

Owner: C. B. Warren and H. C. Warren
Driller: Gray Oil Co.

Caliche	157	157
Shale	243	400
Shale	12	412
Shale	55	467
Lime, broken	147	614
Lime	61	675
Shale	20	695
Lime	11	706
Shale and shells	37	743
Lime	21	764
Shale	21	785
Lime and shale streaks	57	842
Lime, broken	196	1,038
Shale and lime streaks	60	1,098
Broken lime	26	1,124
Shale and shells	29	1,153
Broken lime and shale	85	1,238
Shale and shells	32	1,270
Shale and lime	17	1,287
Shale, lime streaks	29	1,316
Lime, hard	14	1,330
Shale and lime	60	1,390
Lime	10	1,400
Lime and shale	28	1,428
Broken lime	13	1,441
Shale and lime	27	1,468
Shale	10	1,478
Lime	37	1,515
Shale and lime	15	1,530

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-39-801—Continued		
Broken lime and shale	106	1,636
Lime	18	1,654
Sand no show	6	1,660
Shale and lime streaks	12	1,672
Sandy lime and sand streaks	14	1,686
Lime	14	1,700

Well ST-40-40-103

Owner: Waldon Youngblood
Driller: J. L. Myers Sons

Sand	2	2
Clay and gravel	13	15
Sand and gravel	17	32
Shale	268	300
Lime	86	386
Lime and shale	588	974
Lime	156	1,130
Broken lime	132	1,262
Lime	313	1,575
Broken lime	126	1,701
No record	34	1,735
Lime	2	1,737
Sand and lime	74	1,811
Lime	109	1,920
Broken lime and shale	35	1,955
Lime	37	1,992
Sandy	21	2,013
Lime	22	2,035
Sand	78	2,113
Lime	99	2,212
Broken sand and lime	73	2,285
Broken sand	55	2,340
Lime and shale	43	2,383
No record	45	2,428
Broken shale	52	2,480

Well ST-40-40-401

Owner: Robinson Water Co.
Driller: J. L. Myers Sons

Surface soil	40	40
Shale	291	331

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

Well ST-40-40-401—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Chalk rock	89	420
Shale	430	850
Lime	487	1,337
Broken lime	125	1,462
Lime	135	1,597
Broken lime	341	1,938
Shale and sand	247	2,185
Sand	30	2,215
Broken sand	200	2,415
Red bed	10	2,425
Sand	45	2,470
Red bed	30	2,500

Well ST-40-46-101

Owner: Rolling Hills Country Club
Driller: Key Water Well Drilling — Development Co.

Lime	249	249
Sandy lime	51	300
Sand	35	335
Sandy lime	47	382
Lime	251	633
Sandy lime	344	977
Sand	288	1,265
Lime	155	1,420
Sand	80	1,500

Well ST-40-46-402

Owner: City of Moody
Driller: J. L. Myers Sons

Surface soil	8	8
Gravel	7	15
Sand and gravel	10	25
Rock	45	70
Hard lime	13	83
Hard lime	67	150
Shale	13	163
Lime	80	243
Lime	45	288
Lime	15	303
Sandy shale	16	319

Well ST-40-46-402—Continued

Lime	38	357
Lime with streaks of shale	83	440
Lime and shale	99	539
Lime	23	562
Lime	18	580
Lime	75	655
Lime	74	729
Lime and shale	102	831
Lime	63	894
Lime	60	954
Lime and shale	64	1,018
Lime and shale	67	1,085
Sand	33	1,118
Lime	67	1,185
Lime	12	1,197
Sand	54	1,251
Lime	28	1,279
Broken shale and lime	77	1,356
Shale and lime	29	1,385
Sand	46	1,431
Broken sand and lime	50	1,481
Lime	13	1,494

Well ST-40-46-403

Owner: City of Moody
Driller: J. L. Myers Sons

Surface soil	6	6
Clay	14	20
Shale	160	180
Chalk	151	331
Broken rock and shale	283	614
Shale	16	630
Sandy lime	283	913
Lime	126	1,039
Sandy lime	61	1,100
Lime	115	1,215
Sand and shale	219	1,434
Lime	61	1,495
Sand	55	1,550
Lime	11	1,561

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-46-801		
Owner: Elm Creek Water Supply Corp. Driller: C. M. Stoner Drilling Co.		
Soil	1	1
Rock	59	60
Shale	270	330
White rock	1,025	1,355
Sand	70	1,425
Sandy and red bed	165	1,590
Sand	75	1,665
Yellow shale	15	1,680

MC LENNAN COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

Well ST-39-17-701

Owner: Axtell Water Supply Corp.

DATE	WATER LEVEL
Apr. 1959	10
Mar. 17, 1965	82.00
Mar. 15, 1966	52.00
Apr. 19, 1967	80.60
Mar. 15, 1968	89.70
Apr. 3, 1969	97.99

Well ST-39-17-901

Owner: Prairie Hill Water Supply Corp.

DATE	WATER LEVEL
Feb. 28, 1966	79.79
Apr. 19, 1967	82.78
Mar. 15, 1968	95.50
Apr. 3, 1969	103.31

Well ST-39-25-101

Owner: Mt. Carmel Center

DATE	WATER LEVEL
Aug. 26, 1966	209.64
Sept. 30, 1966	212.33

Well ST-39-25-102

Owner: Elk-Oaklake Water Supply Corp.

DATE	WATER LEVEL
Feb. 12, 1964	60
Mar. 15, 1966	54.98
Aug. 25, 1966	61.91
Sept. 26, 1966	61.70
Oct. 31, 1966	62.24
Nov. 30, 1966	63.22
Dec. 28, 1966	61.94
Apr. 19, 1967	62.70
June 7, 1967	64.32
July 3, 1967	77.10
Aug. 11, 1967	82.92
Oct. 10, 1967	75.07

Well ST-39-25-102—Continued

DATE	WATER LEVEL
Nov. 6, 1967	75.19
Dec. 7, 1967	74.40
Feb. 8, 1968	80.34
Mar. 15, 1968	74.98
Apr. 3, 1969	117.5

Well ST-39-25-501

Owner: City of Mart

DATE	WATER LEVEL
Mar. 9, 1965	59.6
Mar. 10, 1965	60.60
Apr. 28, 1965	90.00
May 2, 1967	31.53
Mar. 21, 1968	41.23
Apr. 2, 1969	55.74

Well ST-39-33-202

Owner: Riesel Municipal Utility District

DATE	WATER LEVEL
Feb. 26, 1964	30.00
Feb. 28, 1966	22.03
Mar. 21, 1968	32.80
Apr. 2, 1969	41.03

Well ST-40-16-401

Owner: City of West

DATE	WATER LEVEL
1926	30
Feb. 14, 1932	54
May 17, 1942	67
Dec. 30, 1942	66
Jan. 8, 1943	89
Mar. 7, 1966	163.82
Aug. 25, 1966	179.8
Sept. 29, 1966	168.46
Oct. 31, 1966	168.33
Nov. 30, 1966	168.28
Dec. 28, 1966	167.30

Well ST-40-16-401—Continued

DATE	WATER LEVEL
Feb. 7, 1967	167.41
June 7, 1967	166.74
July 3, 1967	169.02
Aug. 11, 1967	175.62
Sept. 13, 1967	171.51
Oct. 9, 1967	168.90
Nov. 6, 1967	173.10
Dec. 7, 1967	174.57
Jan. 11, 1968	173.10
Feb. 12, 1968	172.37
Mar. 15, 1968	173.90
Apr. 3, 1969	176.02

Well ST-40-16-402

Owner: City of West

DATE	WATER LEVEL
Apr. 1949	136
Nov. 1960	218
1962	296
May 1964	234
Apr. 5, 1965	264.84
Nov. 6, 1967	303.0
Mar. 15, 1968	310.33
Apr. 3, 1969	332.74

Well ST-40-22-804

Owner: S. M. Talbert

DATE	WATER LEVEL
Mar. 30, 1966	208.27
Aug. 29, 1966	190.32
Sept. 26, 1966	188.73
Oct. 28, 1966	191.20
Nov. 29, 1966	188.30
Jan. 3, 1967	188.59
Apr. 18, 1967	187.86
June 7, 1967	187.78
July 5, 1967	192.52

Table 4.—Water Levels in Selected Wells in McLennan County—Continued

DATE	WATER LEVEL
Well ST-40-22-804—Continued	
Sept. 14, 1967	197.69
Oct. 11, 1967	195.10
Nov. 14, 1967	193.50
Dec. 11, 1967	190.65
Jan. 18, 1968	191.30
Feb. 6, 1968	190.19
Mar. 14, 1968	189.52
Apr. 10, 1969	193.26
Well ST-40-24-301	
Owner: Leroy-Tours-Gerald Water Supply Corp.	
1958	Flowed
Mar. 2, 1966	80.00
Apr. 19, 1967	53.0
May 11, 1967	52.35
Mar. 21, 1968	65.46
Well ST-40-24-803	
Owner: State of Texas	
Feb. 11, 1953	73
Oct. 1957	220
Dec. 1957	187
Nov. 25, 1962	300
1963	335
Mar. 31, 1964	338.0
Apr. 1, 1964	260.0
Mar. 2, 1966	253.02
Aug. 25, 1966	277.0
Sept. 29, 1966	284.92
Oct. 31, 1966	281.26
Nov. 30, 1966	260.64
Dec. 29, 1966	257.36
Apr. 19, 1967	254.89
June 6, 1967	258
June 23, 1967	278
Aug. 11, 1967	333.11
Sept. 12, 1967	319.73
Oct. 10, 1967	301.88
Nov. 7, 1967	289.49

DATE	WATER LEVEL
Well ST-40-24-803—Continued	
Dec. 7, 1967	264.70
Jan. 11, 1968	250.83
Feb. 12, 1968	244.35
Apr. 3, 1969	227.63
Well ST-40-29-601	
Owner: East Crawford Water Supply Corp.	
Sept. 12, 1966	207.3
Oct. 12, 1966	207.5
Oct. 28, 1966	208.14
Jan. 3, 1967	218.52
Feb. 8, 1967	218.35
Apr. 18, 1967	218.52
June 6, 1967	224.59
Aug. 11, 1967	225.75
Sept. 14, 1967	225.32
Nov. 7, 1967	224.12
Jan. 18, 1968	234.80
Feb. 6, 1968	232.48
Mar. 6, 1969	251.20
Well ST-40-29-805	
Owner: City of Crawford	
Jan. 11, 1965	307.99
May 19, 1965	318.80
Feb. 24, 1966	324.82
Feb. 25, 1966	330.65
Aug. 29, 1966	334.21
Sept. 30, 1966	330.83
Oct. 31, 1966	330.62
Nov. 11, 1966	330.21
Jan. 3, 1967	328.93
Feb. 10, 1967	328.93
Apr. 18, 1967	329.52
June 7, 1967	330.45
July 5, 1967	333.60
Sept. 14, 1967	340.38
Oct. 11, 1967	335.66
Nov. 14, 1967	342.95

DATE	WATER LEVEL
Well ST-40-29-805—Continued	
Dec. 11, 1967	338.25
Jan. 18, 1968	335.40
Feb. 12, 1968	335.30
Mar. 14, 1968	334.50
Mar. 7, 1969	336.7
Well ST-40-30-603	
Owner: Speegleville School	
Mar. 1962	130
Mar. 16, 1966	177.94
Aug. 26, 1966	191.08
Sept. 30, 1966	187.38
Oct. 28, 1966	186.12
Nov. 30, 1966	187.82
Jan. 3, 1967	185.65
Apr. 18, 1967	186.84
Aug. 11, 1967	198.41
Sept. 14, 1967	195.29
Nov. 7, 1967	191.20
Dec. 11, 1967	187.90
Jan. 18, 1968	188.36
Feb. 6, 1968	187.61
Mar. 14, 1968	185.90
Sept. 4, 1968	194.27
Apr. 10, 1969	185.70
Well ST-40-30-901	
Owner: M. M. O'Dowd	
Nov. 10, 1961	150
Aug. 26, 1966	219.6
Sept. 30, 1966	211.76
Nov. 30, 1966	208.76
Feb. 7, 1967	210.53
Apr. 18, 1967	206.26
June 6, 1967	214.27
Aug. 11, 1967	224.65
Sept. 14, 1967	228.42
Nov. 7, 1967	222.83
Dec. 11, 1967	217.60

Table 4.—Water Levels in Selected Wells in McLennan County—Continued

DATE	WATER LEVEL
Well ST-40-30-901—Continued	
Jan. 18, 1968	218.17
Feb. 6, 1968	214.03
Mar. 14, 1968	214.49
Sept. 4, 1968	235.84
Apr. 10, 1969	222.84
Well ST-40-31-102	
Owner: City of Waco	
Sept. 12, 1942	10
Mar. 31, 1949	23
Mar. 16, 1966	196.80
May 15, 1967	195.56
Mar. 14, 1968	199.23
Sept. 5, 1968	237.10
Apr. 3, 1969	220.77
Well ST-40-31-604	
Owner: Buchanan Laundry	
May 1959	108
Aug. 1962	94
May 18, 1967	181.43
Mar. 15, 1968	187.58
Apr. 7, 1969	182.82
Well ST-40-31-612	
Owner: Pure Milk Co.	
1956	100
Dec. 21, 1960	100
July 1963	115
1964	150
Mar. 21, 1968	219.00
May 18, 1968	218.00
Apr. 10, 1969	223.02
Well ST-40-31-802	
Owner: Bryan-Maxwell-Bryan (Recorder well, recorder installed on May 26, 1964)	
May 31, 1964	275.56
June 5, 1964	275.55
June 10, 1964	278.20
June 15, 1964	283.92
June 20, 1964	281.12
June 25, 1964	282.47
June 30, 1964	286.80
July 5, 1964	290.63
July 10, 1964	296.00
July 15, 1964	301.19
July 20, 1964	304.00
July 25, 1964	306.99
July 31, 1964	313.53
Aug. 5, 1964	316.72
Aug. 10, 1964	320.63
Aug. 15, 1964	322.53
Aug. 20, 1964	317.42
Aug. 25, 1964	313.75
Aug. 31, 1964	312.07
Sept. 5, 1964	315.09
Sept. 10, 1964	319.43
Sept. 15, 1964	317.70
Sept. 20, 1964	313.10
Sept. 25, 1964	309.12
Sept. 30, 1964	306.35
Oct. 5, 1964	305.03
Oct. 10, 1964	303.22
Oct. 15, 1964	301.45
Oct. 20, 1964	300.37
Oct. 25, 1964	300.47
Oct. 31, 1964	298.57
Nov. 5, 1964	298.89
Nov. 10, 1964	295.96
Nov. 15, 1964	294.92
Nov. 20, 1964	293.90
Nov. 25, 1964	292.38
Nov. 30, 1964	292.86
Dec. 5, 1964	290.28
Dec. 10, 1964	289.85
Dec. 15, 1964	288.89
Dec. 20, 1964	288.01
Dec. 25, 1964	287.13
Dec. 31, 1964	286.63
Jan. 5, 1965	285.72
Jan. 10, 1965	284.89
Jan. 15, 1965	284.15
Jan. 20, 1965	283.31
Jan. 25, 1965	282.71
Mar. 5, 1965	277.99
Mar. 10, 1965	277.95
Mar. 15, 1965	277.34
Mar. 20, 1965	277.77
Mar. 25, 1965	277.30
Mar. 31, 1965	277.24
Apr. 5, 1965	277.86
Apr. 10, 1965	277.21
Apr. 15, 1965	277.28
Apr. 20, 1965	278.31
Apr. 25, 1965	282.02
Apr. 30, 1965	283.78
May 5, 1965	284.97
May 10, 1965	283.95
May 15, 1965	282.09
May 20, 1965	280.96
May 25, 1965	280.26
May 31, 1965	279.02
June 5, 1965	279.20
June 10, 1965	279.03
June 15, 1965	282.23
June 20, 1965	286.02
June 25, 1965	288.37
June 30, 1965	293.54
July 5, 1965	298.55
July 10, 1965	305.16
July 15, 1965	309.92
July 20, 1965	312.82
July 25, 1965	317.53
July 31, 1965	320.82
Aug. 5, 1965	322.06

Table 4.—Water Levels in Selected Wells in McLennan County—Continued

DATE	WATER LEVEL
Well ST-40-31-802—Continued	
Aug. 10, 1965	323.60
Aug. 15, 1965	325.28
Aug. 20, 1965	323.93
Aug. 25, 1965	325.75
Aug. 31, 1965	321.76
Sept. 5, 1965	318.25
Sept. 10, 1965	318.83
Sept. 15, 1965	320.77
Sept. 20, 1965	319.62
Sept. 25, 1965	314.98
Sept. 30, 1965	311.82
Oct. 5, 1965	309.10
Oct. 10, 1965	307.02
Oct. 15, 1965	306.02
Oct. 20, 1965	305.29
Oct. 25, 1965	303.92
Oct. 31, 1965	303.88
Nov. 5, 1965	302.37
Nov. 10, 1965	300.72
Nov. 15, 1965	299.21
Nov. 20, 1965	298.02
Nov. 25, 1965	297.25
Nov. 30, 1965	296.96
Dec. 5, 1965	295.88
Dec. 10, 1965	295.03
Dec. 15, 1965	294.30
Dec. 20, 1965	293.28
Dec. 25, 1965	292.24
Dec. 31, 1965	291.30
Jan. 5, 1966	290.83
Jan. 10, 1966	290.21
Jan. 15, 1966	289.93
Jan. 20, 1966	289.80
Jan. 25, 1966	289.87
Jan. 31, 1966	289.29
Feb. 5, 1966	288.59
Feb. 10, 1966	288.14
Feb. 28, 1966	287.56
Mar. 5, 1966	286.56
Mar. 10, 1966	286.70
Mar. 15, 1966	286.20
Mar. 20, 1966	286.12
Mar. 25, 1966	286.23
Mar. 31, 1966	285.09
Apr. 5, 1966	285.63
Apr. 10, 1966	285.87
Apr. 15, 1966	289.49
Apr. 20, 1966	292.59
Apr. 25, 1966	290.60
Apr. 30, 1966	288.47
May 5, 1966	286.95
May 10, 1966	287.95
May 15, 1966	288.71
May 20, 1966	289.15
May 25, 1966	288.00
May 31, 1966	290.53
June 5, 1966	292.70
June 10, 1966	296.76
June 15, 1966	300.61
June 20, 1966	299.07
June 25, 1966	297.47
June 30, 1966	303.42
July 5, 1966	307.52
July 10, 1966	305.54
July 15, 1966	308.45
July 20, 1966	317.06
July 25, 1966	323.45
July 31, 1966	331.04
Aug. 5, 1966	334.68
Aug. 10, 1966	335.22
Aug. 15, 1966	328.54
Aug. 20, 1966	324.45
Aug. 25, 1966	323.23
Aug. 31, 1966	319.45
Sept. 5, 1966	318.00
Sept. 10, 1966	317.96
Sept. 15, 1966	315.64
Sept. 20, 1966	313.81
Sept. 25, 1966	312.45
Sept. 30, 1966	311.85
Oct. 5, 1966	310.48
Oct. 10, 1966	309.11
Oct. 15, 1966	308.87
Oct. 20, 1966	308.07
Oct. 25, 1966	307.76
Oct. 31, 1966	307.58
Nov. 6, 1966	307.08
Nov. 10, 1966	306.42
Nov. 15, 1966	305.97
Nov. 20, 1966	305.29
Nov. 25, 1966	305.09
Nov. 30, 1966	304.06
Dec. 5, 1966	303.08
Dec. 10, 1966	303.00
Dec. 15, 1966	302.38
Dec. 20, 1966	301.61
Dec. 25, 1966	301.07
Dec. 31, 1966	300.01
Jan. 5, 1967	299.76
Jan. 10, 1967	299.91
Jan. 15, 1967	299.09
Jan. 20, 1967	298.60
Jan. 25, 1967	297.98
Jan. 31, 1967	297.58
Feb. 5, 1967	297.23
Feb. 10, 1967	297.17
Feb. 15, 1967	297.04
Feb. 20, 1967	296.78
Feb. 25, 1967	296.36
Feb. 28, 1967	295.94
Mar. 5, 1967	295.98
Mar. 10, 1967	296.53
Mar. 15, 1967	297.60
Mar. 20, 1967	298.61

Table 4.—Water Levels in Selected Wells in McLennan County—Continued

DATE	WATER LEVEL
Well ST-40-31-802—Continued	
Mar. 25, 1967	297.94
Mar. 31, 1967	299.38
Apr. 5, 1967	300.56
Apr. 10, 1967	303.19
Apr. 15, 1967	303.33
Apr. 20, 1967	301.78
Apr. 25, 1967	301.16
Apr. 30, 1967	298.00
May 5, 1967	297.95
May 10, 1967	300.24
May 15, 1967	301.29
May 20, 1967	301.11
May 25, 1967	300.16
May 31, 1967	301.26
June 5, 1967	299.98
June 10, 1967	300.81
June 15, 1967	303.56
June 20, 1967	309.43
June 25, 1967	314.99
June 30, 1967	321.84
July 5, 1967	324.37
July 10, 1967	329.59
July 15, 1967	339.25
Aug. 20, 1967	353.75
Aug. 25, 1967	348.02
Aug. 31, 1967	344.16
Sept. 5, 1967	342.94
Sept. 10, 1967	338.19
Sept. 15, 1967	334.94
Sept. 20, 1967	331.94
Sept. 25, 1967	330.00
Sept. 30, 1967	328.41
Oct. 5, 1967	327.75
Oct. 10, 1967	326.44
Oct. 15, 1967	324.91
Oct. 20, 1967	323.60
Oct. 25, 1967	322.39
Oct. 31, 1967	322.02

DATE	WATER LEVEL
Well ST-40-31-802—Continued	
Nov. 5, 1967	321.25
Nov. 10, 1967	319.08
Nov. 15, 1967	318.28
Nov. 20, 1967	317.10
Nov. 25, 1967	316.18
Nov. 30, 1967	315.67
Dec. 5, 1967	314.97
Dec. 10, 1967	314.17
Feb. 25, 1968	306.07
Feb. 29, 1968	306.23
Mar. 5, 1968	306.12
Mar. 10, 1968	305.56
Mar. 15, 1968	305.52
Mar. 20, 1968	304.91
Mar. 25, 1968	304.67
Mar. 31, 1968	304.55
Apr. 5, 1968	304.58
Apr. 10, 1968	304.70
Apr. 20, 1968	305.22
Apr. 25, 1968	304.86
Apr. 30, 1968	305.35
May 5, 1968	305.98
May 10, 1968	306.22
May 15, 1968	305.63
July 5, 1968	309.72
July 10, 1968	311.77
July 15, 1968	310.38
July 20, 1968	314.09
July 25, 1968	321.38
July 31, 1968	314.03
Aug. 5, 1968	326.87
Aug. 10, 1968	332.80
Aug. 15, 1968	333.08
Aug. 20, 1968	334.73
Aug. 25, 1968	334.65
Aug. 31, 1968	331.28
Sept. 5, 1968	333.38
Sept. 10, 1968	334.37
Sept. 15, 1968	335.44

DATE	WATER LEVEL
Well ST-40-31-802—Continued	
Sept. 20, 1968	334.86
Sept. 25, 1968	332.38
Sept. 30, 1968	330.50
Oct. 5, 1968	329.13
Oct. 10, 1968	328.06
Oct. 15, 1968	326.41
Oct. 20, 1968	325.62
Oct. 25, 1968	325.35
Oct. 31, 1968	326.25
Nov. 5, 1968	325.53
Nov. 10, 1968	324.20
Nov. 15, 1968	324.00
Nov. 20, 1968	323.10
Nov. 25, 1968	322.60
Nov. 30, 1968	321.60
Dec. 5, 1968	321.39
Dec. 10, 1968	320.00
Dec. 15, 1968	321.65
Dec. 20, 1968	321.36
Dec. 25, 1968	319.14
Dec. 31, 1968	320.45
Jan. 5, 1969	319.24
Jan. 10, 1969	318.50
Jan. 15, 1969	317.00
Jan. 20, 1969	316.84
Jan. 25, 1969	318.56
Jan. 31, 1969	318.47
Feb. 5, 1969	317.16
Feb. 10, 1969	317.33
Feb. 15, 1969	316.95
Feb. 20, 1969	316.64
Feb. 25, 1969	316.64
Feb. 28, 1969	316.78
Mar. 5, 1969	316.14
Mar. 10, 1969	315.43
Mar. 15, 1969	314.27
Mar. 20, 1969	313.82
Mar. 25, 1969	313.79

Table 4.—Water Levels in Selected Wells in McLennan County—Continued

DATE	WATER LEVEL
Well ST-40-31-802—Continued	
Mar. 31, 1969	313.53
Apr. 5, 1969	314.33
Apr. 10, 1969	314.33
Apr. 15, 1969	315.37
Well ST-40-32-501	
Owner: City of Waco	
July 17, 1958	193
Nov. 6, 1965	277.95
Mar. 17, 1966	252.05
Mar. 15, 1968	244.34
Apr. 3, 1969	246.53
Well ST-40-37-501	
Owner: City of McGregor	
Apr. 29, 1965	400
Mar. 16, 1966	416.30
Apr. 18, 1967	425.73
Mar. 15, 1968	425.98
Mar. 7, 1969	426.31
Well ST-40-38-801	
Owner: Spring Valley Water Supply Corp.	
May 13, 1965	263.00
May 14, 1965	324.00
Mar. 15, 1966	323.00
Apr. 18, 1967	317.83
Mar. 14, 1968	324.68
Mar. 7, 1969	322.08
Well ST-40-39-103	
Owner: Luther Herring	
Apr. 25, 1950	180
1960	265
Mar. 31, 1965	292.17
Mar. 15, 1966	284.39

DATE	WATER LEVEL
Well ST-40-39-302	
Owner: Waco Memorial Park	
1952	45
Sept. 1959	120
June 24, 1965	263.24
Mar. 22, 1968	228.13
Well ST-40-39-502	
Owner: Edwin Nichols	
May 20, 1965	239.32
Mar. 17, 1969	258.02
Well ST-40-39-702	
Owner: Lorena Water Supply Corp.	
Oct. 1964	215
Jan. 6, 1965	140
Jan. 6, 1965	143
Mar. 2, 1965	153.50
Mar. 1, 1966	132.00
Apr. 20, 1967	163.23
Mar. 18, 1968	178.02
Mar. 7, 1969	182.18
Well ST-40-40-401	
Owner: Robinson Water Co.	
Mar. 1, 1966	84.55
Apr. 20, 1967	60.12
Mar. 18, 1969	103.72
Well ST-40-40-702	
Owner: Levi Water Supply Corp.	
Nov. 12, 1964	90
Jan. 5, 1965	74.95
Mar. 1, 1966	75.39
Aug. 26, 1966	82.61
Sept. 29, 1966	80.45
Oct. 28, 1966	80.93
Nov. 30, 1966	81.12
Dec. 28, 1966	81.02
Feb. 7, 1967	83.82
Apr. 20, 1967	81.73

DATE	WATER LEVEL
Well ST-40-40-702—Continued	
June 7, 1967	83.05
July 3, 1967	84.62
Oct. 10, 1967	91.70
Nov. 8, 1967	93.27
Dec. 11, 1967	89.80
Jan. 11, 1968	92.39
Feb. 8, 1968	89.90
Mar. 18, 1969	94.92
Well ST-40-46-403	
Owner: City of Moody	
Aug. 6, 1957	280
Jan. 26, 1965	297.91
Mar. 15, 1966	376.54
Aug. 26, 1966	311.26
Sept. 29, 1966	310.00
Nov. 3, 1966	348.94
Nov. 30, 1966	322.72
Dec. 28, 1966	318.45
Feb. 8, 1967	321.24
Apr. 20, 1967	312.45
July 3, 1967	364.35
Oct. 10, 1967	322.6
Nov. 10, 1967	335.70
Dec. 11, 1967	335.30
Jan. 16, 1968	327.25
Feb. 13, 1968	335.82
Mar. 15, 1968	321.13
Mar. 7, 1969	327.6
Well ST-40-46-602	
Owner: W. H. Cast	
Oct. 1964	305
May 12, 1967	269.90
Mar. 21, 1968	273.80
Mar. 18, 1969	278.0

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Kho, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
ST-39-17-701	3,129	Nov. 1, 1961	Kho	--	0.14	6.0	< 1	290	--	506	103	60	2.7	1.3	--	774	713	18	97	1,290	8.2	28.7
901	3,385	July 22, 1965	do.	--	3.6	11	1	278	--	550	118	49	1.9	< 0.4	--	1,210	733	34	95	1,312	8.3	21.2
25-102	2,905	Feb. 15, 1964	do.	--	.26	4	1	272	--	481	130	53	2	< .4	--	950	700	13	98	1,296	8.4	32.0
102	2,905	Jan. 26, 1965	do.	--	.08	7	1	331	--	454	212	99	1.0	2	--	1,110	877	19	97	1,568	8.1	30.6
1/ 401	3,035	Mar. 1, 1967	do.	21	.76	4	.5	* 276	--	493	100	80	--	--	--	973	705	12	98	1,170	8.3	34.3
1/ 401	3,035	Mar. 14, 1967	do.	23	.15	4	.5	* 283	--	514	125	54	--	--	--	1,000	743	12	98	1,170	8.07	35.2
2/ 501	3,181	Apr. 6, 1951	do.	28	.42	3.3	1.9	* 279	--	510	113	50	3.6	.0	--	730	--	16	97	1,140	8.1	30.3
501	3,181	Apr. 30, 1951	do.	29	.1	8	3	* 268	--	494	111	53	2	< .4	--	730	716	33	95	--	8.4	20.5
501	3,181	Apr. 12, 1965	do.	--	.04	4	1	276	--	500	123	47	2.1	< .4	--	960	700	14	98	1,224	8.4	32.5
501	3,181	Apr. 28, 1965	do.	29	--	† 5	--	270	--	492	126	47	3	< .4	--	720	--	13	--	1,120	7.9	--
701	2,916	May 15, 1963	do.	--	--	† 4	--	255	--	461	118	44	1.7	1	--	890	651	10	--	1,200	8.3	--
701	2,916	Sept. 8, 1963	do.	--	.14	† 6	--	262	--	475	122	43	--	< .4	--	910	668	16	--	1,205	8.3	--
701	2,916	Apr. 6, 1965	do.	--	.08	† 7	--	264	--	456	116	44	1.7	2	--	900	659	17	--	1,176	8.5	--
701	2,916	Mar. 28, 1966	do.	--	.2	† 3	--	258	--	459	129	44	1.5	.5	--	900	662	8	--	1,176	8.4	--
3/ 33-101	2,820	Nov. 23, 1951	do.	22	.07	9.2	5.1	* 348	--	522.2	229.6	76	--	--	--	1,278.5	947	44	95	--	8.1	22.9
4/ 104	3,115	Feb. 6, 1967	do.	--	.15	4	1	255.8	--	449	92.8	52	1.5	.3	--	875.8	629	14	98	970	8.5	30.1
3/ 201	3,109	Feb. 20, 1949	do.	12	--	148	39	* 1,040	--	180	2,270	198	--	.0	1.1	3,820	3,797	530	81	5,030	--	19.7
3/ 201	3,109	Mar. 15, 1949	do.	30	--	84	23	* 754	--	218	1,600	71	--	.0	--	2,670	--	304	84	3,570	7.7	18.9
201	3,109	Apr. 15, 1949	do.	42	1.1	102	20	* 725	--	220	1,559	78	1.1	< .4	--	2,668	2,637	337	82	--	7.2	17.1
2/ 201	3,109	Aug. 23, 1950	do.	--	1.5	--	--	--	--	222	1,580	70	--	--	--	--	--	--	--	--	7.4	--
201	3,109	July 13, 1962	do.	--	.56	85	23	760	--	210	3,540	73	1.2	< .4	--	3,000	2,587	307	84	5,000	7.7	18.9
202	3,531	Mar. 31, 1964	do.	--	.06	† 5	--	265	--	456	120	44	1.8	1.5	--	900	662	13	--	1,185	8.4	--
202	3,531	Nov. 5, 1964	do.	--	.28	99	16	259	--	267	560	53	2.3	1.5	--	1,260	1,122	314	64	2,068	8.1	6.4
202	3,531	Apr. 14, 1966	do.	--	.14	112	16	267	--	317	580	55	2.7	1.5	--	1,350	1,191	347	63	2,134	8.3	6.2
40-15-901	1,874	Dec. 8, 1965	do.	--	.22	3	1	225	--	403	81	47	.8	< .4	--	770	556	11	98	1,015	8.6	28.0

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
[3] ST-40-15-901	1,874	--	Kho	--	0.08	3	1	223	--	410	85	47	0.7	< 0.4	--	780	562	12	98	1,025	8.6	27.7
16-401	2,010	Jan. 6, 1941	Ktp	16	.08	10	4.0	* 255	--	427	146	46	.8	2.0	--	685	--	42	93	--	8.9	17.1
[2] 401	2,010	Jan. 8, 1943	do.	14	.0	16	8	269	4	430	234	46	.6	.2	--	804	--	73	88	--	8.2	13.8
[2] 401	2,010	Mar. 21, 1949	do.	18	.10	14	7.4	270	6.4	418	239	46	1.8	.2	0.20	805	--	66	89	1,250	7.8	14.5
402	2,008	Aug. 26, 1952	Kho	17	.08	13	12	* 208	--	409	21	53	.7	< .4	--	530	--	12	85	--	8.8	9.9
402	2,008	Feb. 11, 1959	do.	--	.24	3	2	215	--	410	87	50	.7	< .4	--	690	560	15	97	1,150	8.0	23.4
402	2,008	June 3, 1963	do.	--	< .02	† 4	--	225	--	418	84	48	1	.5	--	790	569	10	--	1,060	8.6	--
403	2,088	Feb. 11, 1959	do.	--	.04	3	1	215	--	418	80	50	.7	.4	--	705	556	13	98	1,175	8.0	26.7
403	2,088	June 3, 1963	do.	--	< .02	† 4	--	232	--	420	84	48	1	.5	--	800	577	10	--	1,075	8.6	--
[3] 404	1,977	Jan. 6, 1969	do.	--	0	3	1	230	--	410	80	53	.5	4	--	600	574	13	98	--	8.6	28.6
501	2,350	Aug. 16, 1966	do.	--	< .02	3	1	247	--	467	97	49	1.1	< .4	--	870	629	13	98	--	8.3	30.7
701	2,430	Nov. 6, 1964	do.	--	.12	4	2	279	--	451	98	104	1.6	< .4	--	950	711	19	97	1,296	8.5	28.9
701	2,430	Nov. 29, 1965	do.	--	.10	5	2	279	--	461	101	100	1.1	.5	--	950	716	18	97	1,278	8.4	26.4
[5] 22-307	1,160	Nov. 27, 1967	Kha	--	--	1	3	225	--	420	110	27	.4	--	--	600	573	16	97	--	8.4	25.1
[6] 308	1,127	Mar. 29, 1961	do.	--	--	13	4	263	--	424	101	73	--	--	--	917	662	3	92	--	--	16.3
[6] 308	1,127	do.	do.	--	--	13	5	257	--	415	107	66	--	--	--	903	652	3	91	--	--	15.3
[2] 802	1,400	Jan. 7, 1943	Kho	15	0	6.9	7.7	* 348	--	466	307	69	1.8	0	--	985	--	48	94	--	8.4	21.6
[2] 802	1,400	do.	do.	14	.08	4.2	1.2	* 242	--	397	90	58	.6	1	--	618	606	16	97	--	8.4	26.3
802	1,400	July 20, 1954	do.	20	1.8	13	18	682	--	500	922	135	2.6	4.4	--	2,026	2,045	107	93	--	8.3	28.8
804	1,150	Nov. 30, 1961	Khe	--	.14	4	2	220	--	420	94	20	1	.4	--	489	549	19	96	815	8.2	22.8
23-705	1,180	Apr. 20, 1965	do.	16	--	14	16	478	--	520	580	54	4.6	1.5	--	1,680	1,421	102	91	2,100	7.6	20.8
903	2,114	Sept. 19, 1958	Kho	--	.64	4	2	230	--	448	123	45	1.4	< .4	--	606	627	20	97	1,010	8.0	23.8
903	2,114	Oct. 16, 1965	do.	--	--	3	2	242	--	425	112	37	1.4	< .4	--	830	607	16	97	1,095	8.4	26.3
24-102	2,269	Nov. 27, 1959	do.	--	.64	3	1	224	--	426	84	46	.8	< .4	--	576	--	11	98	960	8.6	27.8
301	2,863	July 3, 1959	do.	--	1.1	16	3	518	--	407	90	545	1.5	< .4	--	1,710	1,375	52	96	2,850	7.9	30.9
301	2,863	Nov. 14, 1962	do.	--	.38	16	4	544	--	405	108	541	1.5	2	--	1,622	1,416	57	95	2,728	7.9	31.6
401	2,270	Nov. 5, 1959	do.	--	.04	4	1	202	--	401	140	46	.7	1.3	--	598	--	16	97	930	8.4	23.5
[3] 501	2,414	--	do.	--	.2	4	2	254	--	486	98	52	1.6	< .4	--	900	651	18	97	1,152	8.4	26.3
701	2,323	Aug. 6, 1955	do.	23	1.2	6	1	251	--	409	130	46	1.3	< .4	--	700	661	19	97	--	8.5	24.8
[3] 701	2,323	Sept. 17, 1956	do.	--	--	--	--	--	--	437	--	39	1.8	--	--	--	--	13	--	1,070	8.3	--
701	2,323	Mar. 21, 1962	do.	--	0.72	4	2	240	--	427	115	44	1.2	1.1	--	642	618	17	97	1,070	8.1	24.9
701	2,323	Feb. 14, 1966	do.	--	.06	4	1	242	--	421	126	43	1.3	.5	--	840	625	16	97	1,122	8.3	28.5
702	2,336	Aug. 8, 1955	do.	27	1.7	6	1	260	--	403	152	46	1.3	< .4	--	716	694	19	98	--	8.4	25.7

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	%CALCULATED					
ST-40-24-702	2,335	Feb. 14, 1956	Kho	--	0.06	7	2	243	--	426	135	39	1.5	< 0.4	--	850	637	26	95	1,134	8.1	21.1
703	2,438	May 1, 1961	do.	--	.07	3	1	228	--	427	71	45	.7	1.6	--	578	560	13	98	964	8.0	28.3
703	2,438	Sept. 13, 1962	do.	--	.14	3	1	230	--	408	78	47	.6	< .4	--	773	560	12	98	1,026	8.5	28.6
703	2,438	Oct. 4, 1962	do.	--	.06	3	1	255	--	477	84	46	.3	< .4	--	866	625	13	98	1,110	8.4	31.7
703	2,438	1966	do.	--	.04	3	1	310	--	415	71	46	--	< .4	--	750	635	11	98	--	8.3	38.5
1/ 801	2,400	Sept. 1942	Kpe, Kho	--	--	--	--	--	--	394	--	47	--	--	--	698	--	27	--	--	--	--
2/ 801	2,400	Jan. 9, 1943	do.	22	.01	4.2	1.4	* 261	--	395	135	48	.5	.2	--	710	667	16	97	--	8.6	28.4
2/ 801	2,400	Mar. 28, 1956	do.	24	.01	3.8	1.1	* 254	--	430	133	52	2	.4	--	671	--	14	98	1,070	8.5	29.9
2/ 801	2,400	May 6, 1963	do.	22	.02	3.8	1.6	* 257	--	442	139	45	1.6	.0	--	705	688	16	97	1,070	7.9	27.9
801	2,400	Mar. 14, 1966	do.	11	--	48	11	490	--	420	475	297	2.6	< .4	--	1,540	--	168	87	2,375	7.8	16.7
801	2,400	do.	do.	18	--	25	8	383	--	411	492	59	2.9	< .4	--	1,190	--	96	90	1,750	7.6	17.0
3/ 801	2,400	--	do.	6.3	.1	4.2	.9	247.1	--	431.9	113.2	47.5	--	--	--	877.6	632	14.7	97	--	8.2	29.2
2/ 802	2,370	Jan. 9, 1943	do.	21	.02	4.2	1.4	* 248	--	358	134	41	.9	.2	--	684	627	16	97	--	8.3	27.0
2/ 802	2,370	May 6, 1963	do.	22	.01	4	1.5	* 252	--	444	122	49	1.5	.0	--	696	671	16	97	1,050	7.9	27.4
803	2,494	Feb. 14, 1953	Kho	22	.14	7	6	229	--	433	86	53	.8	< .4	--	660	617	42	92	--	8.3	15.1
4/ 29-601	1,206	Aug. 26, 1966	do.	--	.15	3.2	1.9	259.7	--	417.2	90.3	68	.6	.5	--	870.4	630	16	97	1,170	8.1	28.2
601	1,206	Aug. 30, 1966	do.	--	.10	1	2	247	--	418	95	63	.7	< .4	--	840	615	11	98	1,130	8.7	32.6
802	962	Sept. 10, 1952	Khe	15	.44	10	7	* 201	--	397	87	32	.8	< .4	--	552	--	54	89	--	8.2	12.0
802	962	Sept. 27, 1960	do.	--	.08	4	2	240	--	420	113	29	.7	< .4	--	592	--	18	97	986	8.2	24.9
802	962	Mar. 11, 1963	do.	--	.14	7	4	293	--	437	233	44	1.2	< .4	--	1,020	688	33	95	1,398	8.4	22.0
802	962	Dec. 7, 1964	do.	--	.60	9	8	367	--	455	391	58	2.3	< .4	--	1,290	1,061	55	93	1,903	8.3	21.3
805	941	Apr. 12, 1963	do.	--	.12	8	4	295	--	432	251	42	1.2	< .4	--	1,030	814	26	95	1,410	8.3	21.4
805	941	Dec. 7, 1964	do.	--	.06	9	5	302	--	439	262	43	2.1	< .4	--	1,060	840	43	94	1,470	8.3	19.9
805	941	Apr. 18, 1966	do.	--	.08	10	8	339	--	442	345	53	2.3	< .4	--	1,200	975	57	93	1,760	8.3	19.4
30-301	1,126	July 12, 1966	do.	--	.04	4	3	258	--	440	156	34	1.9	< .4	--	900	673	23	96	1,188	8.4	23.4
301	1,126	July 8, 1967	do.	--	--	6	2	259	--	407	181	35	1.6	3	--	920	685	25	96	--	--	23.5
302	1,140	July 11, 1966	do.	--	.14	6	4	258	--	422	172	32	1.9	< .4	--	900	681	33	95	--	8.5	19.7
302	1,140	July 8, 1967	do.	--	.20	5	2	256	--	355	154	31	1.6	2	--	860	625	22	96	--	9.1	24.2
603	1,146	Sept. 18, 1968	do.	14	.24	4	2	247	--	442	142	33	1.6	< .4	--	660	--	19	97	1,037	8.4	25.6
604	1,171	July 4, 1966	do.	--	.26	6	3	266	--	407	182	36	1.9	< .4	--	910	695	29	95	--	8.7	21.8
604	1,171	July 8, 1967	do.	--	.42	5	3	262	--	405	189	36	1.7	2	--	920	698	26	96	--	--	22.8
901	1,360	Sept. 4, 1968	Kho	15	--	4	1	307	--	466	72	168	1.4	< .4	--	800	--	15	98	1,350	8.3	36.1
5/ 31-101	1,600	Aug. 18, 1942	Khe, Kho	12.8	.4	0	0	* 239.5	--	400.2	79.6	46.0	--	--	--	825.5	576	0	--	--	8.6	--

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
2/ ST-40-31-101	1,600	Jan. 7, 1943	Khe, Kho	17	0.02	3.2	1.5	* 232	--	335	101	40	0.5	0.2	--	620	561	14	97	--	8.4	27.3
3/ 101	1,600	Jan. 9, 1943	do.	128	.6	4.2	1.4	260	--	455	135	48	--	.2	--	696	802	16	97	--	8.6	28.3
2/ 101	1,600	Jan. 17, 1943	do.	17	.2	3.2	1.5	232	--	433	101	40	.5	.2	--	609	--	14	97	--	8.4	27.3
2/ 101	1,600	Mar. 31, 1949	do.	16	.05	2	1.3	240	4.8	386	108	44	2	1.2	0.37	627	609	10	97	1,000	8.5	31.6
3/ 101	1,600	Sept. 4, 1961	do.	16.9	.46	3.4	1.8	237.6	--	378.2	124	40	.82	--	--	890.2	612	16	97	--	8.3	25.9
101	1,600	Feb. 9, 1968	do.	--	.24	3	2	234	--	423	105	38	1	< .4	--	810	592	17	97	--	8.4	25.4
2/ 102	1,540	Jan. 7, 1943	do.	15	.0	3.5	1.3	* 237	--	440	101	44	.5	.0	--	619	--	14	97	--	8.4	27.9
3/ 102	1,540	Jan. 9, 1943	do.	10	.4	4.2	1.4	248	0	434	134	41	--	.2	--	664	651	16	97	--	8.6	27.0
402	1,184	July 2, 1966	Khe	--	.32	5	4	258	--	432	159	33	1.9	< .4	--	900	674	32	95	--	8.5	20.8
402	1,184	July 8, 1967	do.	--	.42	5	2	253	--	438	159	34	1.8	2	--	900	672	22	96	--	8.5	23.9
403	1,192	July 3, 1966	do.	--	.28	6	3	256	--	412	159	32	1.9	< .4	--	880	662	29	95	--	8.7	21.0
403	1,192	July 8, 1967	do.	--	.10	3	1	256	--	364	157	33	1.9	3	--	860	634	15	98	--	8.9	31.8
2/ 501	2,151	Feb. 29, 1952	Kho	20	.01	3.2	1.3	248	2.8	432	124	47	1.1	1.0	.40	664	--	14	97	1,060	8.2	29.2
501	2,151	Apr. 28, 1952	do.	18	.04	14	3	* 244	--	415	138	53	1	2.2	--	638	627	48	92	--	8.6	15.4
501	2,151	Sept. 8, 1964	do.	--	< .02	3	1	246	--	423	112	47	1	2	--	840	619	13	98	1,090	8.4	30.6
2/ 504	2,150	Sept. 17, 1956	do.	--	--	--	--	--	--	419	--	48	1.4	--	--	--	--	12	--	1,050	8.4	--
504	2,150	Mar. 2, 1964	do.	--	.06	3	1	250	--	429	119	51	1.2	< .4	--	860	637	12	98	1,150	8.5	31.1
504	2,150	Sept. 8, 1964	do.	--	.02	3	1	246	--	421	112	47	1	2	--	840	619	13	98	1,090	8.4	30.6
2/ 601	2,046	Jan. 8, 1943	Kep	16	.04	5.9	3.1	* 280	--	354	208	43	2	.0	--	772	732	28	96	--	8.3	23.0
604	2,122	Sept. 4, 1968	Kho	17	--	2	1	234	--	431	97	47	1	< .4	--	620	--	12	98	975	8.4	33.9
3/ 605	2,263	Feb. 23, 1937	Kep	--	--	--	--	--	--	420	292	61	--	--	--	--	--	--	--	--	--	--
3/ 605	2,263	Mar. 23, 1937	do.	--	--	--	--	--	--	417	293	62	--	--	--	--	--	--	--	--	--	--
612	2,194	Sept. 4, 1968	Kho	20	.10	2	2	237	--	444	90	57	1	< .4	--	630	--	12	98	990	8.1	28.6
2/ 702	1,936	Sept. 17, 1956	do.	--	--	--	--	--	--	434	--	59	1.4	--	--	--	--	10	--	1,120	8.4	--
4/ 705	1,298	Sept. 14, 1964	Khe	12	.05	6.4	3.4	273.7	--	446.5	188.5	44	1.5	--	--	991.6	751	30	95	--	8.4	21.6
705	1,298	May 25, 1966	do.	--	< .02	6	4	279	--	440	199	45	1.7	< .4	--	980	751	29	95	2,320	8.4	21.3
4/ 706	1,329	Sept. 14, 1964	do.	11.4	.05	6.4	3.4	270.4	--	440	186.8	44	1.5	--	--	975.9	741	30	95	--	8.3	21.4
706	1,329	May 23, 1966	do.	--	< .02	4	2	279	--	433	191	45	1.7	< .4	--	960	736	21	97	1,314	8.6	28.9
3/ 802	2,040	do.	Kho	12	.1	1.5	.4	251.5	--	420.9	91	57	--	--	--	888.1	621	5.4	99	--	8.5	49.7
2/ 32-101	2,400	Sept. 17, 1956	do.	--	--	--	--	--	--	425	--	45	1.4	--	--	--	--	12	--	1,050	8.6	--
102	2,303	Sept. 28, 1948	do.	20	.2	12	2	* 243	--	409	97	50	1.0	< .4	--	638	627	38	93	--	8.5	17.0
2/ 102	2,303	Sept. 17, 1956	do.	--	--	--	--	--	--	428	--	45	1.2	--	--	--	--	10	--	1,010	8.3	--
3/ 103	2,396	May 23, 1957	do.	--	--	0	5.3	225	--	320	120	46	--	--	--	626	553	22	96	--	8.7	20.8

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
8T-4D-32-104	2,329	Dec. 10, 1960	Kho	--	0.10	2.2	10	219.91	1.62	327	120	45	0.09	0.054	--	694	560	15.4	91	--	8.45	14.1
104	2,329	Mar. 21, 1962	do.	--	.08	4	2	240	--	425	115	44	1.2	1.1	--	642	616	18	97	1,010	8.1	24.9
104	2,329	Feb. 14, 1966	do.	--	< .02	4	1	243	--	418	127	41	1.4	< .4	--	840	624	14	97	1,116	8.4	28.6
106	2,255	Aug. 6, 1965	Ktp	--	1.05	4	1	231	--	409	--	--	1.1	< .4	--	810	--	13	97	1,098	8.7	27.2
2/ 403	2,312	Mar. 31, 1949	Kho	20	.08	3	1.5	239	6.8	428	88	53	1.4	.0	0.21	629	--	14	96	1,010	8.4	28.1
3/ 405	2,147	Mar. 23, 1937	Ktp	--	--	--	--	--	--	454	81	54	--	--	--	--	--	--	--	--	--	--
2/ 405	2,147	Jan. 9, 1943	do.	17	.01	3.3	1.3	237	1	339	86	52	.7	.2	--	633	566	14	97	--	8.4	27.9
3/ 501	2,493	Jan. 6, 1964	Kho	13.6	.7	3.2	1	252	--	423.3	98	60	.96	--	--	723.2	638	12	98	--	8.4	31.3
37-501	1,340	July 7, 1965	Khe	--	.10	5	1	247	--	434	120	46	1.9	< .4	--	860	634	19	97	1,150	8.5	26.9
2/ 601	1,028	Jan. 6, 1943	do.	10	.0	6.3	4.6	* 309	--	444	214	67	1	.5	--	844	831	34	95	--	8.2	22.8
601	1,028	Dec. 15, 1953	do.	26	.06	6	12	299	--	458	235	67	1.4	.4	--	897	872	65	91	--	8.5	16.3
2/ 602	1,250	Jan. 6, 1943	Khe, Kpe	13	.0	5.6	2.4	276	4.6	446	123	66	1.7	.0	--	736	712	24	95	--	8.4	24.5
602	1,250	June 20, 1951	do.	12	.04	7	3	* 261	--	476	127	61	1.2	< .4	--	624	707	35	95	--	8.2	20.6
603	1,028	Apr. 6, 1956	Khe	12	.16	3	2	256	--	421	127	53	1.1	< .4	--	685	662	16	97	--	8.4	27.8
603	1,028	Feb. 3, 1965	do.	--	< .02	4	2	247	--	446	130	43	1.2	< .4	--	860	647	18	97	--	8.4	25.6
604	1,044	Feb. 2, 1956	do.	10	.12	7	2	293	--	433	170	92	1.2	< .4	--	756	789	26	96	--	7.8	25.5
801	1,190	Aug. 5, 1942	do.	13	.18	11	6	* 244	--	384	142	64	1.4	.4	--	702	671	52	91	--	8.4	14.7
801	1,190	May 25, 1945	do.	20	.24	8	2	* 263	--	418	136	67	1.1	.4	--	722	704	28	95	--	8.3	21.6
801	1,190	Jan. 17, 1956	do.	12	.6	4	3	287	--	445	150	82	1.6	< .4	--	766	--	23	97	--	8.5	26.0
801	1,190	Nov. 1, 1961	do.	--	.08	5	1	274	--	461	107	62	1.2	< .4	--	699	678	16	97	1,165	8.3	29.8
802	1,046	Aug. 5, 1942	do.	15	.8	12	5	* 242	--	403	136	53	1	.4	--	678	663	51	91	--	8.3	14.6
802	1,046	May 25, 1945	do.	17	.07	7	2	* 264	--	421	138	64	.9	.4	--	724	700	26	96	--	8.3	23.0
802	1,046	Jan. 21, 1956	do.	12	.05	4	2	280	--	445	131	82	1.2	< .4	--	740	--	18	97	--	8.3	29.0
803	1,201	Aug. 28, 1942	do.	14	.24	8	4	* 250	--	403	131	67	.6	.7	--	684	--	37	94	--	8.3	18.1
803	1,201	May 25, 1945	do.	25	.27	7	2	* 267	--	421	136	71	1	.6	--	728	717	26	96	--	8.3	22.8
803	1,201	Jan. 17, 1956	do.	14	.05	4	3	285	--	433	164	75	1.6	< .4	--	720	760	23	96	--	8.7	23.4
804	1,062	Aug. 7, 1942	do.	13	.24	9	4	* 252	--	397	141	67	1.4	.4	--	699	683	39	93	--	8.4	17.7
804	1,062	May 25, 1945	do.	17	.04	7	2	* 270	--	403	145	78	1	.4	--	727	--	26	96	--	8.3	23.5
804	1,062	Jan. 17, 1956	do.	14	.05	4	3	276	--	427	141	82	1.4	< .4	--	713	732	23	96	--	8.7	25.0
2/ 38-302	1,485	Feb. 27, 1942	Khe, Kpe Kho	--	.4	4.3	2.5	* 282	--	434	152	66	--	1	--	738	721	21	97	--	--	26.7
2/ 302	1,485	Oct. 9, 1942	do.	13	--	--	--	--	--	245	--	82	--	--	--	644	--	--	--	--	8.5	--
2/ 302	1,485	Jan. 6, 1943	do.	13	.0	5.6	2.2	* 286	--	443	160	64	1.4	.5	--	764	751	23	96	--	8.2	25.9
801	1,460	May 15, 1965	Khe, Kho	--	.16	5	3	295	--	471	149	67	.9	< .4	--	990	753	25	96	1,385	8.4	25.7

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
ST-40-37-8D1	1,460	Aug. 13, 1965	Khe, Kho	--	0.14	6	1	364	--	610	111	129	5	< 0.4	--	1,230	917	21	98	1,648	8.1	36.0
39-101	1,865	Sept. 19, 1968	Kho	8	.56	6	3	291	--	432	98	148	1.2	< .4	--	770	--	28	96	1,290	8.4	23.9
108	1,900	Sept. 20, 1968	Khe	16	.42	7	4	290	--	445	214	51	2.1	< .4	--	800	--	34	95	1,270	7.9	21.8
204	1,914	Oct. 26, 1961	Kho	--	.01	3	1	284	--	432	100	70	.9	< .4	--	810	671	11	98	1,344	8.2	35.3
204	1,914	Aug. 2, 1965	do.	--	< .02	3	1	275	--	437	97	62	1.2	< .4	--	880	655	13	98	1,145	8.5	34.2
302	2,096	June 24, 1965	Kho	15	--	5	1	242	--	439	96	51	1.5	< .4	--	630	--	17	97	1,026	8.2	25.7
502	1,560	June 25, 1965	Kho	10	--	17	2	320	--	433	221	105	2.5	< .4	--	890	--	51	93	1,460	8.3	19.3
702	1,888	July 19, 1965	Kho	--	.06	6	1	282	--	444	83	116	2.2	< .4	--	950	709	18	97	1,320	8.5	27.9
40-101	2,391	Sept. 13, 1967	do.	--	< .02	† 6	--	253	--	427	125	48	1.5	< .4	--	870	644	16	--	--	8.5	--
702	2,640	Nov. 18, 1964	do.	--	--	† 6	--	253	--	451	93	60	1.2	< .4	--	870	636	15	--	1,135	8.5	--
9/ 46-101	1,500	Sept. 27, 1967	do.	--	.2	3	2	350	--	555	70	175	2	.0	--	900	875	16	98	--	8.3	38.1
402	1,494	Sept. 5, 1951	do.	14	.16	9	4	* 327	--	494	120	156	2	1.6	--	862	877	39	95	--	7.8	22.9
402	1,494	Mar. 5, 1965	do.	15	--	6	2	340	--	493	123	156	2.5	< .4	--	890	--	23	97	1,460	8.0	30.8
402	1,494	Jan. 13, 1966	do.	--	.04	4	2	329	--	466	97	160	2	2.5	--	1,070	826	16	98	1,560	8.4	34.1
8/ 403	1,561	July 30, 1957	do.	--	0	--	3.1	289.46	--	300	115	168	--	--	--	848	724	13	98	--	8.9	35.0
403	1,561	Feb. 14, 1962	do.	--	.05	4	1	332	--	458	93	171	1.4	.9	--	936	828	13	98	1,560	8.2	39.0
2/ 601	1,565	Jan. 9, 1943	Khe	12	.02	7.2	4.5	372	3.8	387	284	131	1.8	1	--	1,037	1,008	36	95	--	8.4	27.0
601	1,565	Feb. 14, 1962	do.	--	.12	9	8	415	--	439	315	174	2	.4	--	1,248	1,140	55	94	2,080	8.3	24.1
602	1,565	Apr. 5, 1965	do.	16	--	5	2	327	--	444	222	88	2.2	< .4	--	880	--	22	97	1,380	8.3	30.3
602	1,565	July 15, 1965	do.	--	.12	5	2	322	--	440	210	87	2.3	2	--	1,070	846	--	97	1,520	8.4	29.8
9/ 801	1,680	Feb. 8, 1967	Kho	--	0	6	0	350	--	505	105	160	1.3	0	0.4	900	871	14	98	--	8.3	39.1
2/ 47-401	1,565	Jan. 9, 1943	Khe	6.5	35	17	15	* 611	--	484	719	198	3.2	.2	--	1,830	1,843	104	93	--	8.0	26.1
401	1,565	Oct. 25, 1961	do.	--	.14	9	5	392	--	458	302	124	2.4	< .4	--	1,122	1,060	41	95	1,870	8.1	25.8
403	1,535	Apr. 5, 1965	do.	16	--	11	9	450	--	466	433	154	3	< .4	--	1,310	--	67	94	2,010	7.9	24.2
403	1,535	Feb. 15, 1966	do.	--	.18	12	8	449	--	470	432	155	2.9	< .4	--	1,294	--	63	94	2,336	8.1	24.7

* Sodium and potassium calculated as sodium (Na)
† Calcium and magnesium calculated as calcium (Ca)

LABORATORY CONDUCTING ANALYSIS:

1/ Microbiology Service Laboratories
2/ U.S. Geological Survey Laboratory
3/ Laboratory unknown
4/ Pope Testing Laboratories
5/ Trinity Testing Laboratories
6/ Texas A&M University
7/ Curtis Laboratories
8/ North Texas State University Research Laboratory
9/ Southwestern Analytical Chemicals, Inc.

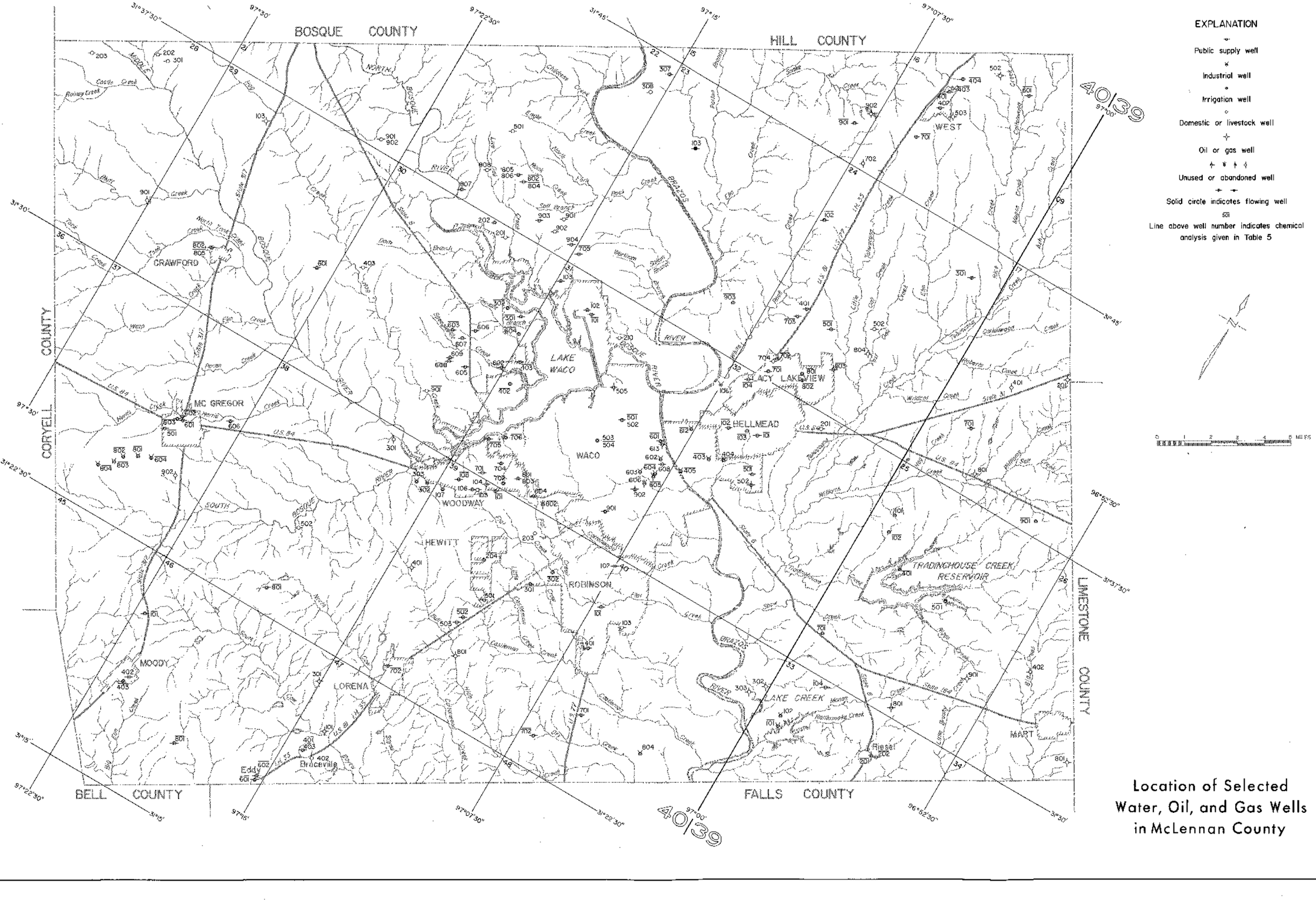

BOSQUE COUNTY
HILL COUNTY
CORYELL COUNTY
LIMESTONE COUNTY
BELL COUNTY
FALLS COUNTY
CRAWFORD
MC GREGOR
WACO
LAKE WACO
LACY LAKEVIEW
WEST
BELLMEAD
WOODWAY
HEWITT
ROBINSON
MOODY
LORENA
Eddy
Bruceville
MART
Riesel
LAKE CREEK MEANS
TRADINGHOUSE CREEK RESERVOIR
EXPLANATION
Public supply well
Industrial well
Irrigation well
Domestic or livestock well
Oil or gas well
Unused or abandoned well
Solid circle indicates flowing well
Line above well number indicates chemical analysis given in Table 5
0 1 2 3 4 5 MILES
Location of Selected Water, Oil, and Gas Wells in McLennan County

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Krp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* TK-58-07-9D1	City of Buckholts	Layne Texas Co.	1957	3,448	14 8 7 5	40 810 3,191 3,448	Kho	510	+ + 6	Apr. 30, 1957 Apr. 1, 1969	T, E 7-1/2	P	Slotted from 3,191 to 3,369 and 3,383 to 3,413 ft. Reported flowed 274 gpm on Apr. 1, 1957. Cemented from 3,191 ft to surface. Temp. 138°F. Texas Water Development Board observation well. 1/ 2/ 3/

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For water-level measurements, see Table 4.

MILAM COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
TK-58-15-801	Buescher and Clarkeson	H. H. Coffield No. 1	1942	6,180	490	E
23-401	Dan J. Harrison	Anna Belle Smith, et al. No. 1	1959	4,562	470	E
602	do.	Gus P. Schran No. 1	1959	5,223	433	E
31-901	Danciger Oil and Refining Co.	Campbell No. 1	1948	3,603	470	E
32-201	Phillips Petroleum Co.	F. Fitzgerald No. 1	1944	4,880	496	E
202	D. H. Bolin	R. L. King No. 1	1952	4,063	474	E
701	Hamman Oil and Refining Co.	E. H. McWilliams No. 1	1962	3,748	567	E
59-01-301	Rimrock Tidelands Inc.	W. F. Crawford No. 1	1956	7,003	342	E
10-901	D. H. Byrd	Green No. 1	1953	8,210	410	E
19-402	Shell Oil Co.	Adque Estate No. 1	1964	13,319	398	E
26-101	General Crude Oil Co.	P. H. Perry No. 1	1958	9,648	525	E

Table 3.—Drillers' Logs of Selected Wells

Well TK-58-07-901

Owner: City of Buckholts
Driller: Layne Texas Co.

	THICKNESS (FEET)	DEPTH (FEET)
Surface soil	4	4
Sticky clay	33	37
Blue shale	299	336
Gray, brittle shale	78	414
Chalk	36	450
Sticky shale	25	475
Soft shale	30	505
Sticky shale	112	617
Soft shale	41	658
Sticky shale	143	801
Hard shale and chalk	15	816
Soft shale and chalk	30	846
Chalk and hard shale	180	1,026
Chalk and gray shale	100	1,126
Chalk	53	1,179
Gray, blue, and yellow shale	59	1,238
Gray shale and chalk	102	1,340
Shale and chalk	28	1,368
Gray shale	21	1,389
Black shale and chalk streaks	69	1,458
Black shale	50	1,508
Shale and lime streaks	54	1,562
Blue shale	70	1,632
Lime and shale	10	1,642
Shale	19	1,661
Shale and lime	19	1,680
Lime and shale streaks	50	1,730
Shale and lime streaks	29	1,759
Sandy lime and shale streaks	31	1,790
Shale	4	1,794
Sandy lime and shale (loose)	10	1,804
Shale	5	1,809
Sandy lime and broken shale	27	1,836
Hard shale	10	1,846

Well TK-58-07-901—Continued

Lime rock	8	1,854
Lime and shale	94	1,948
Shale and sandy lime	12	1,960
Lime	11	1,971
Shale and lime	25	1,996
Blue-gray shale and few streaks of sandy lime	104	1,996
Sandy lime	30	2,130
Shale and sandy lime	60	2,190
Lime	22	2,212
Lime and shale	41	2,263
Shale and lime streaks	14	2,277
Hard shale and lime	65	2,342
Lime and shale	64	2,406
Sandy lime	19	2,425
Lime and shale streaks	43	2,468
Sandy lime	5	2,473
Lime and shale streaks	93	2,566
Sandy lime and shale	10	2,576
Lime and shale streaks	79	2,655
Sandy lime	20	2,675
Hard lime	17	2,692
Sandy lime and shale streaks	15	2,707
Sandy rock, lime, and shale	15	2,722
Hard, sandy lime	10	2,732
Lime	16	2,748
Hard, sandy lime	12	2,760
Lime and shale	15	2,775
Sandy lime	8	2,783
Lime and shale	56	2,839
Sandy shale	6	2,845
Hard, sandy shale	24	2,869
Sandy lime	23	2,892
Sandy lime and sand	9	2,901
Shale with sandy streaks	20	2,921
Shale and sand breaks	120	3,041
Shale and hard streaks of sand	33	3,074

Table 3.—Drillers' Logs of Selected Wells in Milam County—Continued

Well TK-58-07-901—Continued		
Shale and lime	61	3,135
Shale and few sandy shale breaks	35	3,170
Shale and sandy, shale streaks	45	3,215
Shale and lime	35	3,250
Shale and sandy streaks	23	3,273
Hard shale	4	3,277
Shale and broken sand	30	3,307

Well TK-58-07-901—Continued		
Shale	7	3,314
Shale and sand	28	3,342
Shale	17	3,359
Shale and sand	8	3,367
Shale and lime	27	3,394
Sand and shale breaks	17	3,411
Sand	14	3,425
Shale	23	3,448

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

DATE	WATER LEVEL
Well TK-58-07-901	
Owner: City of Buckholts	
Apr. 30, 1957	Flowed
Feb. 21, 1966	+ 23.5
May 2, 1967	+ 19.5
Mar. 18, 1968	+ 12.62
Apr. 1, 1969	+ 6

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

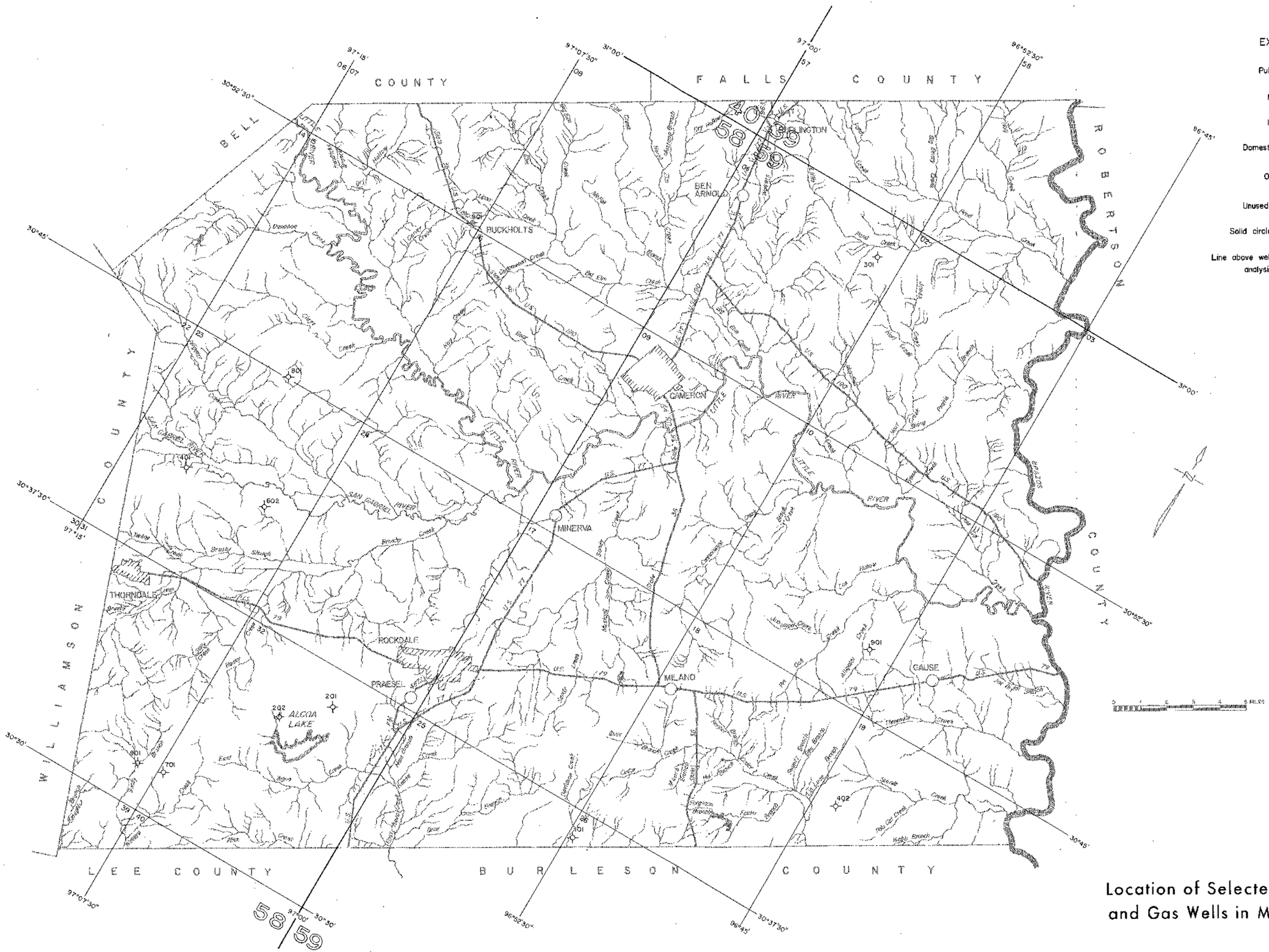
Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
1/ TX-58-07-901	1,510 1,538	Mar. 5, 1957	--	16	0.50	180	62	* 2,003	--	334	3,175	1,050	--	--	--	6,823	6,651	705	86	8,700	8.2	32.9
1/ 901	1,810 1,878	Mar. 8, 1957	Kea	19	1.2	280	82	* 1,962	--	305	3,200	1,100	--	--	--	7,154	6,794	910	80	9,160	8.5	26.5
1/ 901	3,373 3,398	Mar. 20, 1957	Kho	19	7.4	63	18	* 569	--	372	882	174	--	--	--	2,039	1,915	232	84	2,854	7.52	16.3
1/ 901	3,192 3,414	Apr. 1, 1957	do.	25	2.8	62	18	* 547	--	333	889	156	--	--	--	1,987	1,864	230	84	2,725	7.6	15.8
901	3,448	Aug. 30, 1957	do.	--	1.56	60	19	540	--	327	870	146	1.8	< 0.4	--	1,800	--	230	84	3,000	7.4	15.6
901	3,448	Jan. 1959	do.	--	6.94	60	17	* 534	--	245	900	151	1.8	.4	--	1,980	1,791	220	84	3,300	7.3	15.7
901	3,448	Aug. 10, 1965	do.	--	.34	59	18	540	--	312	900	153	2.5	3	--	1,990	1,829	222	84	3,248	7.9	15.8

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

1/ Microbiology Service Laboratories



Location of Selected Water, Oil, and Gas Wells in Milam County

MILLS COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit: : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* TL-41-20-601	City of Priddy	James Mathew Adams	1950	350	10 6	-- 350	Khe	1,565	200	1950	C, E 3	P	--
* 602	do.	do.	1950	355	--	--	do.	1,565	--	--	C, E 3	P	Temp. 70°F.
27-601	Grady Hancock	Henry Hart	1916	100	6	--	Ktp	1,430	53 55.40	Mar. 5, 1961 Mar. 13, 1968	Sub, E 1/2	D	Texas Water Development Board observation well. 3/
* 603	Mrs. Ora B. Wilson	Cooks Water Well Service	1968	106	5	106	Khe	1,435	40	May 21, 1968	Sub, E 1/2	D	Perforated from 66 to 96 ft. Cemented from 5 ft to surface. Temp. 70°F. 1/
28-401	W. R. Lindsey	Watson Drilling	1957	165	5	165	Kp, Kgr	1,590	80 58.33	May 4, 1961 Mar. 14, 1969	C, W	D, S	Perforated from 145 to 165 ft. Pump set at 150 ft. Reported yield 13 gpm. Cemented from 5 ft to surface. Texas Water Development Board observation well. 1/ 3/
29-701	Joe White	--	1954	410	5	410	Ktp	1,550	150	May 10, 1961	G, R	D, S	--
702	Raymond H. Williams	Leon Drilling Co.	--	374	4	374	Khe	1,580	250	--	Sub, E 1-1/2	D	Slotted from 328 to 350 and 355 to 370 ft. Reported yield 10 gpm. Gravel packed. Cemented from 300 to 320 ft. 1/
35-301	Walton Daniels	--	--	123	3	--	Ktp	1,400	34.98 37.8	Jan. 20, 1966 Mar. 14, 1969	N	N	Texas Water Development Board observation well. 2/ 3/
302	Rock Spring School	--	--	54	6	--	do.	1,400	41.21	Jan. 20, 1966	N	N	--
601	James B. McCoy	--	--	80	--	--	Kho	1,385	6 24.2	May 11, 1961 Mar. 14, 1969	Sub, E 1/4	D, S	Texas Water Development Board observation well. 3/
36-201	City of Goldthwaite	E. E. Thate	1955	478	10 8	404 475	do.	1,665	405 414.46	1955 Apr. 12, 1967	N	N	Slotted from 418 to 457 ft. Reported yield 30 gpm. Cemented from 404 ft to surface. Texas Water Development Board observation well. 1/ 2/ 3/
* 202	do.	Layne Texas Co.	1949	405	10 8	340 405	do.	1,612	285 357 334.84	1949 Dec. 9, 1959 Mar. 3, 1965	T, E 25	P	Slotted from 335 to 405 ft. Reported yield 132 gpm. Cemented from 340 ft to surface. 1/
* 203	do	do.	1945	353	10 8	303 353	do.	1,572	235 304 288 311.3	1945 1959 Mar. 12, 1963 Mar. 3, 1965	T, E 15	P	Perforated. Pumping level 307 ft at 85 gpm in Aug. 1945. Cemented from 303 ft to surface. 1/
* 204	do.	do.	1945	370	10	300	do.	1,590	244 263	Dec. 9, 1959 June 21, 1963	T, E 15	P	Open hole completion from 300 to 370 ft. Reported yield 40 gpm. 1/
401	--	--	--	107	6	--	Ktp	1,445	67.00 67.08	Jan. 20, 1966 Mar. 14, 1969	Sub, E 1/2	D	Texas Water Development Board observation well. 3/
* 37-302	Darrell Head	Jack Blaker	1939	215	5	200	Khe	1,393	75	Nov. 28, 1960	C, E 1	D	Open hole completion from 200 to 215 ft. Temp. 70°F.

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	TL-41-37-303	Joe Green	Jack Blaker	1941	213	5	213	Khe	1,405	92.74 92.5	Apr. 12, 1966 Mar. 14, 1969	C, W	D	Texas Water Development Board observation well. 3/
	801	W. L. Berry	Watson Drilling	1960	365	8	320	do.	1,530	245	Aug. 1960	C, E	D, S	Open hole completion from 320 to 365 ft. Reported yield 10 gpm. 1/
*	802	R. C. Berry	-- Row	--	320	5	320	do.	1,505	183.86 185.9	Mar. 13, 1968 Mar. 14, 1969	Sub, E	D, S	Slotted. Pump set at 285 ft. Temp. 71°F. Texas Water Development Board observation well. 3/
*	38-101	B. L. Harper	Watson Drilling	1955	325	5	325	do.	1,430	250 251.4	1955 Mar. 14, 1969	Sub, E	D, S	Perforated from 284 to 325 ft. Pumping level 315 ft at 12 gpm in June 1955. Pump set at 313 ft. Reported yield 3 gpm. Cemented from 5 ft to surface. Temp. 72°F. Texas Water Development Board observation well. 3/
	44-202	P. R. Jordan	-- Arrowood	1951	120	10 6	-- 120	Ktp	1,320	12 5.28	May 10, 1961 Mar. 14, 1969	J, E	D, S	Texas Water Development Board observation well. 3/
	302	Layton Black	Smart Drilling and Supply	1967	340	5	325	Kgr, Ktp	1,490	135 151	May 12, 1967 May 13, 1967	Sub, E 3/4	S	Open hole completion from 5 to 217 and 325 to 340 ft. Slotted from 238 to 260 and 282 to 325 ft. Pump set at 310 ft. Reported yield 4 gpm. 1/ 2/
*	45-401	Leon Johnson	Ollie Vernon Clary	1958	315	5	315	Kbo	1,505	165 134.87	1958 Mar. 14, 1969	C, E	D, S	Perforated from 275 to 315 ft. Reported yield 10 gpm. Temp. 71°F. Texas Water Development Board observation well. 3/

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3..
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For water-level measurements, see Table 4.

MILLS COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
TL-41-19-506	United North and South Development Co.	Fred Johnson No. 1	1950	3,249	1,670	E
20-501	Blumberg and Coleman	J. H. Priddy No. 1	1958	3,520	1,584	E
29-501	R. K. Stoker	Grelle No. 1	1958	3,827	1,511	E
601	Beard and Tullous	J. B. Pfleugger No. 1	1949	4,577	1,550	E
36-502	Robert McCulloch	Rahl No. 1	1954	1,883	1,510	E
601	R. K. Stoker	Fletcher No. 1	1958	3,340	1,570	E
37-301	Byron Hoffman, et al.	J. S. Ownes No. 1	1957	3,100	1,415	E
38-401	Daubert, Dolch and Ehman	Jim Soules No. 1	1957	3,009	1,398	E

MILLS COUNTY

Table 3.—Drillers' Logs of Selected Wells

Well TL-41-27-602

Owner: Mrs. Ora B. Wilson
Driller: Cooks Water Well Service

	THICKNESS (FEET)	DEPTH (FEET)
Black soil	3	3
Broken rock, red	7	10
Red rock	40	50
Red clay	18	68
Yellow rock	2	70
Broken rock, water	2	72
Rock, red	5	87
Broken, red rock and clay	19	106

Well TL-41-28-401

Owner: W. R. Lindsey
Driller: Watson Drilling

Black soil and fine rock	5	5
White lime rock	25	30
Blue shale	50	80
Sand (white sugar), water (Paluxy)	5	85
Blue shale and blue rock	80	165

Well TL-41-29-702

Owner: Raymond H. Williams
Driller: Leon Drilling Co.

Soil, boulders	5	5
Lime, shells, shale	90	95
Blue shale	15	110
Sand, shale, trace of water	20	130
Shale, shells, yellow	40	170
Gray lime	40	210
Lime, shale, white	60	270
Shale, shells	40	310
Sandy lime	18	328
Red shale, sand, gravel, water	22	350
Sandy lime	5	355
Sand, gravel, water	15	370
Sandy lime	4	374

Well TL-41-36-201

Owner: City of Goldthwaite
Driller: E. E. Thate

Soil	2	2
Broken lime	8	10
Lime	4	14
Caliche, white	4	18
Caliche	7	25
Lime	10	35
Lime and shale	30	65
Shale, blue and shell	20	85
Blue shale	16	101
Lime shale	3	104
White lime	11	115
White lime	11	126
Lime	4	130
Shale	20	150
Sand shale	15	165
Blue shale	20	185
Sand, water (2 b)	7	192
Shale, gray	33	225
Lime, broken	10	235
Caliche, lime	55	290
Shale	10	300
Lime, caliche	8	308
Red rock	7	315
Red shale	5	320
Lime	5	325
Red lime, mixed	15	340
Red, sandy shale	10	350
Red lime, mixed	25	375
Broken lime	12	387
Lime, hard	10	397
White caliche	3	400
Sandy	4	404
Lime	14	418
Sandy lime	39	457
Yellow clay	5	462
No record	16	478

Table 3.—Drillers' Logs of Selected Wells in Mills County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well TL-41-36-202		
Owner: City of Goldthwaite Driller: Layne Texas Co.		
Surface soil	3	3
Yellow clay and sand	6	9
Gravel and yellow clay, caliche	4	13
Gray lime	11	24
Hard, blue shale	9	33
Gray shale	24	57
White lime	24	81
Blue, sandy shale	6	87
Sand (dry, hard)	17	104
Sand (water, soft)	14	118
White lime (soft)	23	141
Blue shale	56	197
White lime (hard)	12	209
Blue shale (soft)	7	216
White lime (soft)	11	227
White lime (hard)	14	241
Green shale (soft and gummy)	11	252
Soft green shale	2	254
Sand and sandy lime	13	267
Red rock (hard)	4	271
Red shale and sandy lime (red, hard)	31	302
Red shale and red lime shale	20	322
Red shale and red lime sand (hard)	18	340
Red shale and sandy lime (hard)	4	344
White lime (extra hard)	12	356
Sandy lime (hard)	4	360
White, sandy lime (hard)	4	364
Water sand and gravel	32	396
White, sandy lime (hard)	6	402
Brown shale	3	405

	THICKNESS (FEET)	DEPTH (FEET)
Well TL-41-36-203		
Owner: City of Goldthwaite Driller: Layne Texas Co.		
Sand and gravel	5	5
Yellow sand rock	17	22
Gray lime and shale	6	28
Lime and shale	22	50
Water sand	28	78
Lime and sand	2	80
Sand	10	90
Lime	7	97
Sandy lime and shale	5	102
Lime and shale	5	107
Sandy lime	7	114
Lime	6	120
Sand (dry)	5	125
Lime and shale	75	200
Sandy lime	8	208
Lime and red rock	12	220
Sand (dry)	15	235
Lime and red rock	55	290
Sand and rock	4	294
Lime	4	298
Sandy lime	11	309
Top of Trinity	3	312
Sand (water)	8	320
Lime and shale	6	326
Sand and lime - red rock and fine gravel	6	332
Lime and sandy shale	3	335
Very limy sand and gravel	8	343
Shaly, limy sand	4	347
Lime and shale	3	350
Shale and yellow clay	3	353

Table 3.—Drillers' Logs of Selected Wells in Mills County—Continued

Well TL-41-36-204

Owner: City of Goldthwaite
Driller: Layne Texas Co.

	THICKNESS (FEET)	DEPTH (FEET)
Black soil	5	5
Gravel and sand rock	11	16
Yellow sand rock	6	22
Gray lime and shale	19	41
Sand, water (6 gpm)	39	80
Shale	15	95
Lime and shale	65	160
Sand, lime, and shale	25	185
White, sandy lime	35	220
Red rock	30	250
Sand and red rock	5	255
Sand and shale	5	260
Sand, coarse, no water	5	265
Sand	5	270
Red rock	10	280
Sandy, red rock	18	298
Lime and red rock	22	320
Sand and lime	27	347
Sand, hard	15	362
Sand, real coarse	5	367
Red bed	3	370

Well TL-41-37-801

Owner: W. L. Berry
Driller: Watson Drilling

Dirt	30	30
Blue shale	210	240
Soapstone and gravel	14	254
Red bed, bad	101	355
Water gravel, white	5	360
Sand rock	5	365

Well TL-41-44-302

Owner: Layton Black
Driller: Smart Drilling and Supply

Yellow clay, soft	19	19
Firm, yellow clay rock	1.5	20.5
Yellow clay, soft	3.5	24
Soft, pink clay, cavey	1	25

Well TL-41-44-302—Continued

Soft clay, yellow	7	32
Soft clay, pink	9	41
Tan, OK, good drilling, little hard	17	58
Brown with green tint, soft	4	62
Gray with green tint, soft	6	68
Gray shale, soft, little gummy	16	84
Gray shale, firm (OK)	6	90
Gray shale	39	129
Sandy, sand rock (1/4 gpm)	3	132
Brown lime, firm, cuttings look water, but no water	6	138
Soft, brown limestone, very coarse, no water	3	141
Firm, brown limestone, no water	7	148
Hard limestone with pink rock mixed in, makes tan mud	7	155
Firm, brown limestone with other rock	3	158
Hard, tan, white rock, makes pink mud	1	159
Firm, tan and white rock, makes pink mud	4	163
Gray shale and clay	10	173
Gray shale and limestone combined, makes pink or tan mud	32	205
Hard limestone, some pink rock mixed in (1/2 gpm)	10	215
Firm lime and red rock	11	226
Soft, red clay with white rock mixed in	34	260
Sand, and sand rock, some red rock	5	265
Clay, red, yellow, and green	4	269
Lime and red rock	16	285
Hard, white limestone	13	298
Soft, yellowish green rock	4	302
Hard, sandy rock	4	306
Soft clay and conglomerate gravel	12	318
Brown mud	22	340

MILLS COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

Well TL-41-27-601

Owner: Grady Hancock

DATE	WATER LEVEL
Mar. 5, 1961	53
Apr. 13, 1966	52.63
Mar. 13, 1968	55.40

Well TL-41-28-401

Owner: W. R. Lindsey

DATE	WATER LEVEL
May 4, 1961	80
Apr. 13, 1966	55.25
Apr. 12, 1967	55.17
Mar. 13, 1968	53.20
Mar. 14, 1969	53.33

Well TL-41-35-301

Owner: Walton Daniels

DATE	WATER LEVEL
Jan. 20, 1966	34.98
Apr. 12, 1966	36.17
Nov. 28, 1966	36.55
Feb. 7, 1967	36.70
Apr. 12, 1967	36.97
May 4, 1967	37.60
June 6, 1967	37.83
June 29, 1967	38.32
Aug. 2, 1967	38.90
Sept. 13, 1967	38.32
Oct. 5, 1967	39.04
Nov. 8, 1967	39.32
Dec. 5, 1967	39.41
Jan. 15, 1968	39.60
Feb. 7, 1968	39.08
Mar. 13, 1968	38.19
Mar. 14, 1969	37.8

Well TL-41-35-601

Owner: James B. McCoy

DATE	WATER LEVEL
May 11, 1961	6
Apr. 12, 1966	24.55

Well TL-41-35-601—Continued

DATE	WATER LEVEL
Apr. 12, 1967	29.67
Mar. 14, 1969	24.2

Well TL-41-36-201

Owner: City of Goldthwaite

DATE	WATER LEVEL
1955	405
Nov. 10, 1955	365
Dec. 12, 1955	380
Mar. 28, 1956	405
May 24, 1961	404
June 1, 1961	404
July 28, 1962	402
Apr. 13, 1966	401.61
Aug. 26, 1966	406.42
Sept. 26, 1966	418.0
Apr. 12, 1967	414.46

Well TL-41-36-401

Owner: Unknown

DATE	WATER LEVEL
Jan. 20, 1966	67.00
Apr. 12, 1966	67.76
Apr. 12, 1967	68.06
Mar. 14, 1969	67.08

Well TL-41-37-303

Owner: Joe Green

DATE	WATER LEVEL
Apr. 12, 1966	92.74
Mar. 14, 1969	92.5

Well TL-41-37-802

Owner: R. C. Berry

DATE	WATER LEVEL
Mar. 13, 1968	183.86
Mar. 14, 1969	185.9

Well TL-41-38-101

Owner: B. L. Harper

DATE	WATER LEVEL
1955	250
Mar. 13, 1968	251.17
Mar. 14, 1969	251.4

Well TL-41-44-202

Owner: P. R. Jordan

DATE	WATER LEVEL
May 10, 1961	12
Apr. 12, 1966	5.06
Apr. 12, 1967	14.99
Mar. 14, 1969	5.28

Well TL-41-45-401

Owner: Leon Johnson

DATE	WATER LEVEL
1958	165
Apr. 12, 1966	134.32
Nov. 28, 1966	134.96
Jan. 2, 1967	133.69
Feb. 7, 1967	136.55
Apr. 12, 1967	135.40
May 4, 1967	134.35
June 6, 1967	134.27
June 29, 1967	135.92
Aug. 2, 1967	136.35
Sept. 13, 1967	134.79
Oct. 5, 1967	136.24
Dec. 5, 1967	135.10
Jan. 15, 1968	134.60
Feb. 7, 1968	134.98
Mar. 13, 1968	134.64
Mar. 14, 1969	134.87

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Klp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS REPORTED	DISSOLVED SOLIDS RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
TL-41-20-601	350	June 19, 1959	Khe	14	0.37	50	47	150	--	423	211	48	1.2	< 0.4	--	864	730	320	51	1,440	7.5	3.7
602	355	Sept. 3, 1968	do.	12	--	50	47	136	--	418	213	45	1.5	< .4	--	710	--	320	49	1,120	7.6	3.4
27-602	106	do.	Kho	13	--	110	62	32	--	392	32	68	0.6	168	--	680	--	530	12	1,116	7.4	0.6
36-202	405	Aug. 10, 1949	do.	12	.6	68	49	* 129	--	433	157	92	.8	2.2	--	746	724	367	43	--	8.0	2.9
203	353	June 15, 1948	do.	10	.16	60	53	* 118	--	415	153	103	1.8	< .4	--	709	--	388	41	--	7.4	2.7
204	370	June 7, 1948	do.	13	.19	62	56	* 106	--	433	155	71	.9	.9	--	670	--	335	37	--	7.5	2.4
37-302	215	Nov. 28, 1960	Khe	11	--	60	44	* 147	--	312	250	92	1.1	3	--	782	761	330	49	1,220	7.0	3.5
802	320	Sept. 3, 1968	do.	9	--	41	26	227	--	377	240	101	1.8	1	--	830	--	209	70	1,450	7.7	6.8
38-101	325	do.	do.	10	--	88	29	88	--	354	152	60	.8	1	--	600	--	342	36	980	7.5	2.1
45-401	315	do.	Kho	13	--	63	54	36	--	399	55	44	.9	.14	--	476	--	379	17	815	7.5	.8

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

1/ U.S. Geological Survey Laboratory

Location of Selected Water, Oil, and Gas Wells in Mills County

NAVARRO COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power : A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; We, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	TY-33-58-401	Clifferd William	--	--	900	--	--	Kwb	541	50	June 11, 1968	--	N	
*	502	Frost Gin Co.	--	1939	1,290	--	--	do.	520	346	July 18, 1968	Sub, E 3	Ind	
*	701	J. C. Fry	--	1910	900	4	--	do.	528	250	1967	C, E 1 1/2	D	Pump set at 250 ft. Temp. 81°F.

* For Chemical analysis of water, see Table 5.

NAVARRO COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
TY-33-58-601	F. W. Wilson	Sheppard No. 1	1944	2,511	534	E
39-02-202	J. K. Wadley	P. Cook No. 1	1958	2,773	507	E
501	Dobbson	Davie Cook No. 1	1953	3,345	490	E
03-401	Falcon Oil Co.	J. C. Keitt No. 1	1942	6,455	467	E
12-101	W. M. Coats and Danciger Oil and Refining Co.	Wickham No. 1	1949	2,220	455	E
603	Bond Oil Co.	Miller No. 1	1960	2,931	465	E

NAVARRO COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

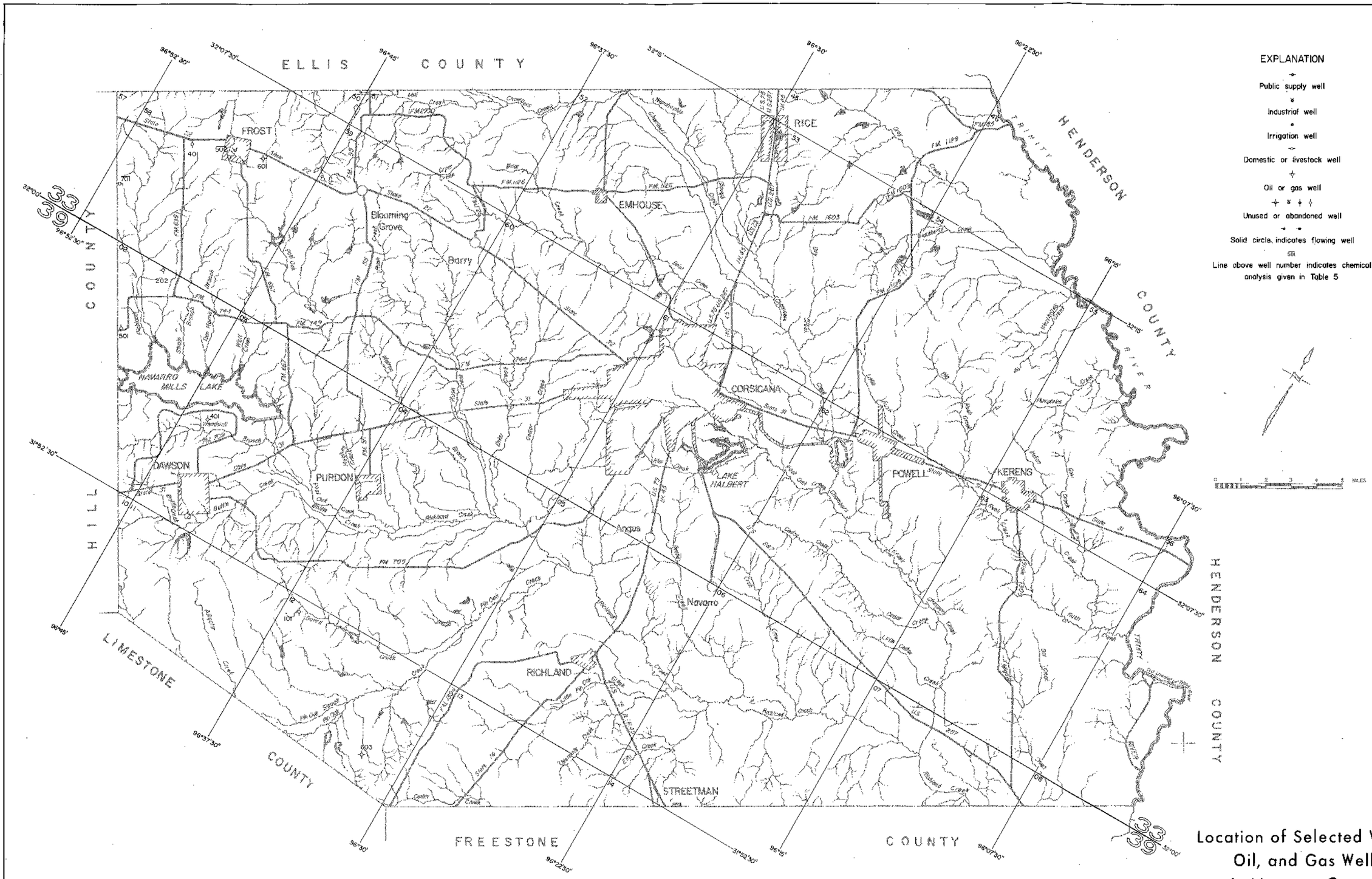
Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
1/ TY-33-58-502	1,290	July 18, 1968	Kwb	13	--	3.5	1.6	846	3.1	924	372	500	4.7	0.5	--	2,200	--	15	99	3,560	8.2	94.4
1/ 701	900	June 11, 1968	do.	12	--	5.8	1.6	672	1.3	708	520	252	4.6	11	--	1,830	--	21	98	2,940	7.9	63.5

LABORATORY CONDUCTING ANALYSIS:

1/ U.S. Geological Survey Laboratory



Location of Selected Water, Oil, and Gas Wells in Navarro County

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power : A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* XJ-32-41-902	J. S. Sanderson	Wallen Pluckett	1946	288	8 7 5	45 125 248	Khe, Kpe, Kho	760	+ 4 4.59	Sept. 16, 1950 Mar. 26, 1969	J, E	D	Slotted from 169 to 189 and 229 to 248 ft. Open hole completion from 248 to 288 ft. Reported yield 6 gpm. Temp. 68°F. Texas Water Development Board observation well. 1/ 4/
* 43-402	B. B. Halbert	W. S. Seward	1945	200	5	34	Khe	600	+ 31 3.75	Sept. 9, 1950 Mar. 21, 1969	C, H	S	Texas Water Development Board observation well. 4/
404	I. W. Keller	do.	1946	200	6	20	do.	600	+ 23	Sept. 15, 1950	C, W	S	Reported flows 3 gpm. Temp. 68°F.
601	Capital Silica Co.	Moore and Huffman	1963	285	6	--	do.	770	75	July 1968	Sub, E 1	Ind	Open hole completion. Pump set at 125 ft.
702	Squaw Creek Cemetary Association	James Russell	1945	359	5	--	Ktp	611	+ 18 + 19 +	Sept. 6, 1950 Nov. 21, 1950 Sept. 14, 1960	Sub, E Flows	Irr	
703	W. B. Stewart	--	1904	374	5	22	Khe, Kpe, Kho	630	23.27 24.35	May 3, 1965 Mar. 21, 1969	J, E	D	Open hole completion from 22 to 374 ft. Texas Water Development Board observation well. 4/
805	E. J. Doughty	James Russell	1948	464	6	--	Ktp	640	8.98 36.58	Aug. 14, 1950 Mar. 21, 1969	J, E 1/2	D	Slotted. Texas Water Development Board observation well. 4/
* 901	Texas Cedar Oil Co.	Russell Brothers	1955	380	8	380	Khe	650	75	Sept. 15, 1960	T, R 5	Ind	Slotted from 320 to 380 ft. Reported yield 100 gpm. Temp. 72°F.
49-601	J. W. Tottenham	Morris Pollack	1950	345	4	345	do.	1,095	128.90 100.09	Aug. 15, 1950 Mar. 26, 1969	G, W	S	Slotted. Texas Water Development Board observation well. 4/
50-103	Roy Kenedy and E. H. Lawrence	--	--	300	--	--	Ktp	715	100	Sept. 13, 1960	T, G	Irr	Pump set at 185 ft.
202	W. A. Wood	--	--	297	6	--	do.	718	+ 2.50 15.49	Nov. 11, 1929 Mar. 26, 1969	J, E 1/4	D, S	Reported yield 3 gpm. Texas Water Development Board observation well. 4/
203	Travis Wooley	Morris Pollack	1950	284	8 4	144 284	Ktp	690	+ 5 2 +	Sept. 16, 1950 Sept. 13, 1960 July 22, 1968	Flows	N	Well reported to have flowed 25 gpm in 1950. Temp. 68°F. Abondoned.
* 303	City of Glen Rose	Layne Texas Co.	1934	325	10 8 5	36 285 325	Kho	630	+ 5 + 10	Sept. 12, 1934 1950 1960	T, E 10	P	Slotted from 286 to 325 ft. Reported yield 246 gpm. Cemented from 286 ft to surface. Temp. 69°F. 1/ 3/
304	do.	Morris Pollack	1954	352	8 4	-- 352	Ktp	640	13	Sept. 21, 1960	T, E 15	P	Reported yield 250 gpm. Cemented
305	T. K. Blalock	W. S. Seward	1945	120	6	30	Kgr	655	27.12 28.10	Sept. 16, 1950 Mar. 21, 1969	J, E 1/2	D	Open hole completion. Texas Water Development Board observation well. 4/
* 701	Cedar Valley Ranch	C. M. Stoner Drilling Co.	1965	510	7	510	Khe	1,060	350	June 3, 1965	Sub, E 15	D, S	Gun perforated with 93 shots 450 to 495 ft. Pump set at 430 ft. Reported yield 80 gpm. Cemented from 465 ft to surface. Temp. 76°F. 1/ 3/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* XJ-32-50-801	C. D. Montgomery	George Hammock	1940	225	4	--	Kp	1,108	180.64 181.24	Sept. 22, 1960	C, W	D, S	Pump set at 200 ft. Temp. 70°F. Texas Water Development Board observation well. 4/
* 51-101	Young Women's Christian Association	Layne Texas Co.	1924	277	3	--	Khe	600	+ 20	June 19, 1930	A, E 3	P	Pump set at 154 ft. Reported yield 50 gpm.
205	V. M. Reeves	W. S. Seward	1945	425	6	40	Ktp	610	+ 10	1945 Sept. 21, 1960	C, E 1/2	D, S	Open hole completion from 40 to 425 ft.
* 501	H. C. Polley	Morris Pollack	1949	370	--	33	Khe	730	63.29 92.90	Sept. 14, 1950 Mar. 21, 1969	C, E 3/4	D	Temp. 70°F. Texas Water Development Board observation well. 4/
* 601	A. E. Smith	James Russell	1948	375	6 4	-- 375	do.	565	+ 33 24.82	Dec. 4, 1950 Mar. 27, 1968	J, E	N	Slotted. Temp. 70°F. Texas Water Development Board observation well. 4/
701	D. A. Odom	John Bulhannon	--	119	--	--	Kp	945	91.50 91.50	Aug. 11, 1950 Mar. 21, 1969	C, W	N	Texas Water Development Board observation well. 4/

* For Chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I.
4/ For water-level measurements, see Table 4/

SOMERVELL COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
XJ-32-43-807	K-B Oil Co.	M. M. Bunt No. 1	1950	4,213	719	E
50-502	Whitaker and Whitaker	Winston No. 1	1950	2,421	860	E
901	Benedum Trees Oil Co.	William Rodgers No. 1	1919	3,625	940	D
51-102	M. E. Davis	T. H. Cousins No. 1	1941	6,505	810	S

SOMERVELL COUNTY

Table 3.—Drillers' Logs of Selected Wells

Well XJ-32-41-902

Owner: J.B. Sanderson
Driller: Wallen Pluckett

	THICKNESS (FEET)	DEPTH (FEET)
No record	8	8
Gravel	29	37
No record	88	125
Lime, blue shale	5	130
Red bed	35	165
Water sand	20	185
Blue shale	5	190
Water sand	25	215
Blue shale and water sand	33	248
Brown shale	30	278
Sandy lime	10	288

Well XJ-32-43-807

Owner: M. M. Bunt
Driller: K-B Oil Co.
(Partial log)

	THICKNESS (FEET)	DEPTH (FEET)
Surface	19	19
Lime	16	35
Lime and shale streaks	193	228
Sandy shale	7	235
Lime and shale streaks	39	274
Sand	114	388
Red bed	18	406
Sand	50	456
Red bed (bottom Travis Peak)	174	630
Lime and shale (Pennsylvania)	194	824

Well XJ-32-50-303

Owner: City of Glen Rose
Driller: Layne Texas Co.

	THICKNESS (FEET)	DEPTH (FEET)
Sandy shale	25	25
Lime	2	27
Gravel	3	30
Lime	15	45
Broken lime	45	90
Broken lime and shale	30	120
White shale	10	130
Water sand	15	145

Well XJ-32-50-303—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Lime	2	147
Red, sandy shale	8	155
Blue shale	5	160
Water sand	20	180
Blue shale	15	195
Red rock	10	205
Blue shale	7	212
Red bed	4	216
Gray shale	39	255
Blue shale	16	271
Red rock	13	284
Water sand	41	325

Well XJ-32-50-701

Owner: Cedar Valley Ranch
Driller: C. M. Stoner Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Soil	1	1
Clay and small rock	2	3
Shell rock	62	65
Sand	55	120
Broken sand and rock	35	155
Lime rock	205	360
Mixed, sandy shale and lime	45	405
Sand	25	430
Red and green shale	35	465
Sand	35	500
Red and green shale	10	510

Well XJ-32-50-901

Owner: William Rodgers
Driller: Benedum Trees Oil Co.
(Partial log)

	THICKNESS (FEET)	DEPTH (FEET)
Cellar	8	8
Lime, shale	372	380
Red, cave, bad (409)	29	409
Broken sand	61	470
Red, cave, bad	10	480
Broken sand	20	500
Red, cave, bad	105	605
Sand	35	640

Table 3.—Drillers' Logs of Selected Wells in Somervell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well XJ-32-50-901--Continued		
Slate, sand	25	665
Red, cave, bad	25	690
Yellow mud, soft	35	725
Well XJ-32-51-102		
Owner: T. H. Cousins Driller: M. E. Davis (Partial log)		
Surface sand	30	30
Hard, lime rock	2	32
Hard lime	18	50
Broken lime, shale	55	105
Lime sand, shale breaks	122	227
Lime and shale, hard	47	274
Lime, shale, sand streaks	56	330
Broken lime, shale	10	340
Broken sand	35	375
Lime and shale	75	450
Broken lime	22	472
Soft sand, fresh water	46	518
Hard, broken sand	42	560
Sandy lime, broken sand	37	597
Lime hard	18	615
Lime and shale, broken	32	647

SOMERVELL COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

Well XJ-32-41-902

Owner: J.B. Sanderson

DATE	WATER LEVEL
Sept. 16, 1950	+ 4
Sept. 13, 1960	2.42
May 14, 1963	3.72
May 14, 1964	3.28
May 3, 1965	3.92
Apr. 5, 1966	6.16
Mar. 13, 1967	4.00
Mar. 27, 1968	3.77
Mar. 26, 1969	4.59

Well XJ-32-43-402

Owner: B. B. Halbert

DATE	WATER LEVEL
Sept. 9, 1950	+ 31
Mar. 15, 1967	3.39
Mar. 27, 1968	2.94
Mar. 21, 1969	3.75

Well XJ-32-43-703

Owner: W. B. Stewart

DATE	WATER LEVEL
June 19, 1930	+ 8.90
Aug. 11, 1950	5.35
Nov. 22, 1950	5.04
Feb. 22, 1951	6.44
June 4, 1951	6.47
May 13, 1953	7.29
Dec. 9, 1954	9.58
June 14, 1955	10.64
Dec. 11, 1956	14.41
Nov. 21, 1957	15.60
May 23, 1962	22.41
May 14, 1963	20.20
May 14, 1964	21.73
May 3, 1965	23.27
Mar. 15, 1967	24.06

Well XJ-32-43-703—Continued

DATE	WATER LEVEL
Mar. 27, 1968	23.43
Mar. 21, 1969	24.35

Well XJ-32-43-805

Owner: E. J. Doughty

DATE	WATER LEVEL
Aug. 14, 1950	8.98
Nov. 22, 1950	8.39
Feb. 22, 1951	8.69
May 1, 1951	8.70
June 4, 1951	8.94
May 13, 1953	11.13
Dec. 9, 1954	13.73
June 14, 1955	15.14
Dec. 11, 1956	19.62
Nov. 21, 1957	20.52
Sept. 13, 1960	26.32
May 23, 1962	28.77
May 14, 1963	28.80
May 14, 1964	32.62
May 3, 1965	34.98
Apr. 5, 1966	37.31
Mar. 15, 1967	36.78
Mar. 27, 1968	36.96
Mar. 21, 1969	36.58

Well XJ-32-49-601

Owner: J. W. Tottenham

DATE	WATER LEVEL
Aug. 15, 1950	128.90
Sept. 16, 1960	101.7
May 14, 1963	100.14
May 14, 1964	100.35
May 3, 1965	101.31
Apr. 4, 1966	99.86
Mar. 27, 1968	100.34
Mar. 26, 1969	100.09

Well XJ-32-50-202

Owner: W. A. Wood

DATE	WATER LEVEL
Nov. 11, 1929	+ 2.50
Aug. 14, 1950	5.52
Nov. 22, 1950	5.65
Feb. 22, 1951	4.58
Dec. 9, 1954	7.19
June 14, 1955	8.00
Dec. 11, 1956	9.97
Nov. 21, 1957	9.97
Sept. 14, 1960	14.20
May 23, 1962	22.47
May 14, 1963	23.72
May 14, 1964	19.82
May 3, 1965	18.91
Apr. 5, 1966	19.15
Mar. 13, 1967	16.57
Mar. 27, 1968	15.39
Mar. 26, 1969	15.49

Well XJ-32-50-305

Owner: T. K. Blalock

DATE	WATER LEVEL
Sept. 16, 1950	27.12
Nov. 21, 1950	25.47
Feb. 22, 1951	23.85
May 1, 1951	26.50
June 4, 1951	31.74
May 12, 1953	34.02
Dec. 8, 1954	27.15
June 14, 1955	32.24
Dec. 11, 1956	27.70
Nov. 21, 1957	25.91
Sept. 22, 1960	35.84
May 23, 1962	35.65
May 14, 1963	33.04

Table 4.—Water Levels in Selected Wells in Somervell County—Continued

DATE	WATER LEVEL
Well XJ-32-50-305—Continued	
May 14, 1964	31.76
May 3, 1965	31.46
Apr. 4, 1966	32.11
Aug. 31, 1966	30.60
Sept. 28, 1966	28.02
Oct. 27, 1966	28.51
Nov. 29, 1966	28.61
Dec. 30, 1966	28.55
Mar. 15, 1967	30.32
May 3, 1967	30.15
June 8, 1967	32.92
June 30, 1967	34.80
Aug. 15, 1967	36.62
Sept. 14, 1967	43.41
Oct. 11, 1967	37.90
Dec. 12, 1967	27.11
Jan. 17, 1968	26.84
Feb. 9, 1968	24.88
Mar. 21, 1969	28.10
Well XJ-32-50-801	
Owner: C. D. Montgomery	
Sept. 22, 1960	180.64
May 14, 1963	181.10
May 14, 1964	180.58
May 3, 1965	182.39
Apr. 4, 1966	181.65
Mar. 13, 1967	180.94
Mar. 28, 1968	181.60
Mar. 26, 1969	181.24
Well XJ-32-51-501	
Owner: H. C. Polley	
Sept. 14, 1950	63.29
Nov. 21, 1950	65.57
Feb. 22, 1951	63.50
Sept. 22, 1960	79.80
May 23, 1962	80.62
May 3, 1965	87.22
Apr. 4, 1966	95.00
Mar. 16, 1967	90.53
Mar. 27, 1968	91.84
Sept. 16, 1968	93.09
Mar. 21, 1969	92.90
Well XJ-32-51-601	
Owner: A. E. Smith	
Dec. 4, 1950	+ 33
Mar. 16, 1967	22.41
Mar. 27, 1968	24.82
Well XJ-32-51-701	
Owner: D. A. Odom	
1929	90.00
Aug. 11, 1950	91.50
Feb. 22, 1951	91.40
May 1, 1951	90.11
June 4, 1951	89.90
May 13, 1953	90.81
Dec. 8, 1954	93.06
June 14, 1955	91.74
Dec. 11, 1956	92.21
Nov. 21, 1957	92.08
Sept. 21, 1960	91.11
May 23, 1962	90.27
May 14, 1963	90.58
May 14, 1964	91.25
May 3, 1965	90.84
Apr. 5, 1966	90.49
Mar. 13, 1967	91.59
Mar. 28, 1968	89.30
Mar. 21, 1969	91.50

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

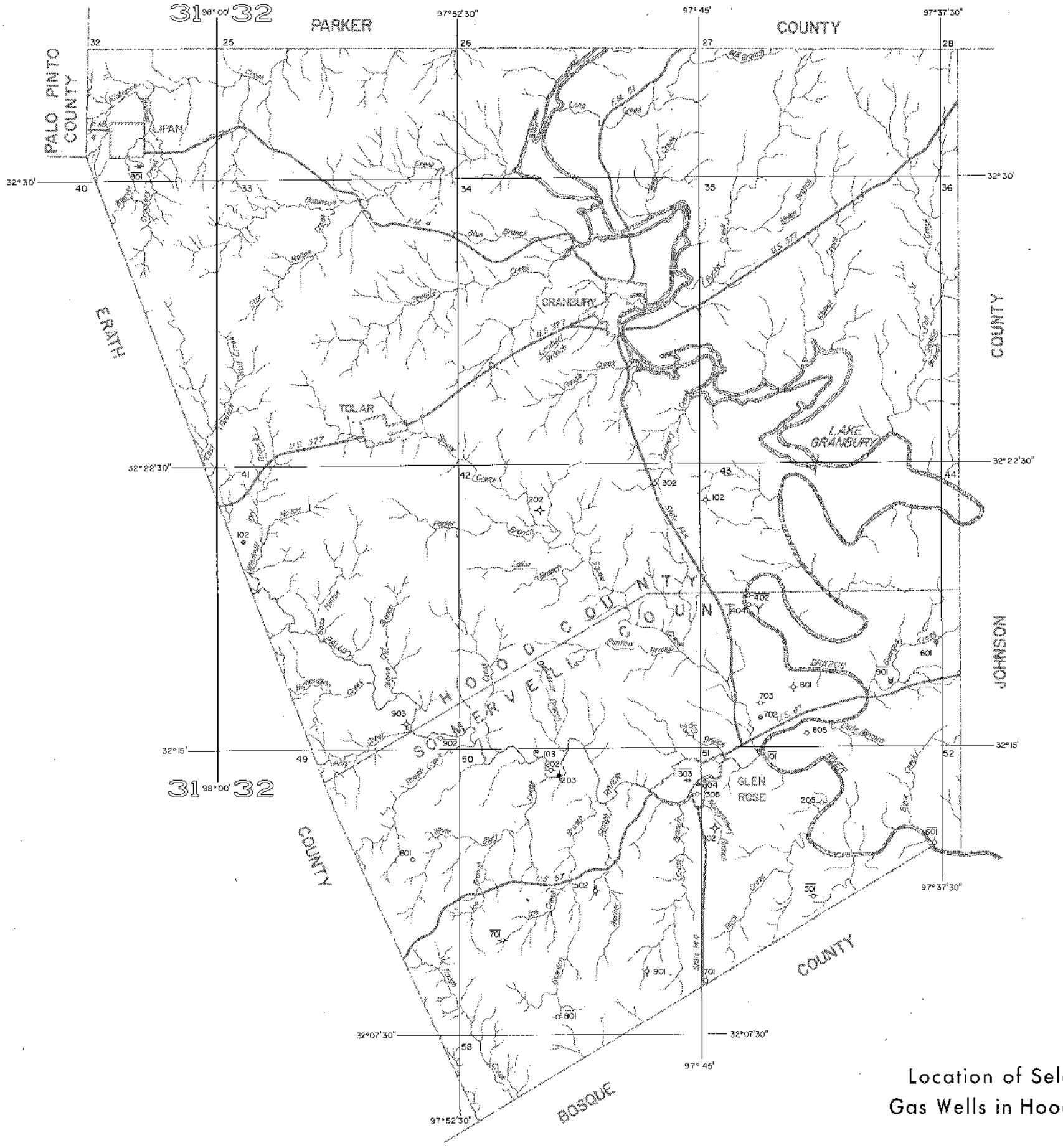
Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
1/ XJ-32-41-902	288	Sept. 16, 1950	Khe, Kpe, Kho	15	--	46	36	* 49	--	330	34	44	0.4	0.8	--	387	--	263	29	615	7.7	1.3
902	288	Sept. 16, 1968	do.	15	--	44	34	54	--	333	36	46	.4	< .4	--	393	--	248	32	674	7.7	1.5
1/ 43-402	200	Sept. 9, 1950	Khe	11	--	2.6	1.3	* 170	--	394	36	15	--	--	--	432	--	12	97	709	8.1	22.4
901	380	Sept. 17, 1968	do.	12	--	3	2	180	--	409	67	19	.9	< .4	--	493	--	16	96	790	8.3	19.6
1/ 50-303	325	Mar. 3, 1949	Kho	15	--	24	22	* 99	--	391	20	16	--	1.2	1.4	391	--	150	59	652	7.7	3.5
304	352	Aug. 19, 1968	Ktp	--	.24	21	18	107	--	390	21	17	.3	< .4	--	570	377	129	65	704	7.8	4.1
701	510	Sept. 16, 1968	Khe	15	.20	54	40	25	--	360	24	27	.4	< .4	--	362	--	299	15	640	7.7	0.6
801	225	do.	Kp	17	--	66	29	29	--	320	59	23	.4	< .4	--	380	--	286	18	641	7.5	.7
1/ 51-101	277	Sept. 9, 1950	Khe	14	--	11	6.6	* 145	--	352	39	15	--	2.5	--	421	407	54	85	646	8.5	8.5
501	370	Sept. 16, 1968	do.	14	--	13	10	147	--	366	67	17	1.2	< .4	--	449	--	75	81	725	7.9	7.4
1/ 601	375	Dec. 4, 1950	do.	12	--	3.4	1.6	* 173	--	363	56	14	--	.2	--	451	438	15	96	727	8.4	19.3

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

1/ U.S. Geological Survey Laboratory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COUNTY
PALO PINTO COUNTY
ERATH
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JOHNSON
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BOSQUE
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97°52'30"
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IPAN
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TOLAR
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LAKE GRANBURY
BRAZOS RIVER
U.S. 377
U.S. 67
FM 4
FM 51
FM 8
Paluxy River
Lambert Branch
Squaw Creek
Indian Creek
Duffau Creek
Nutt Branch
Rucker Branch
Cedar Creek
Wilbarger Creek
Rough Creek
Bee Creek
Stone Hill Creek
Deer Creek
Wolf Creek
Cox Creek
Long Creek
Dry Creek
Hog Creek
Rock Creek
Bluff Creek
Bear Creek
Walnut Creek
Indian Creek
Paluxy River
Brazos River
Nolan River
Squaw Creek
Rough Creek
Bee Creek
Deer Creek
Wolf Creek
Cox Creek
Long Creek
Dry Creek
Hog Creek
Rock Creek
Bluff Creek
Bear Creek
Walnut Creek
Indian Creek
Nutt Branch
Rucker Branch
Cedar Creek
Wilbarger

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASURMENT			
* YD-57-32-601	T. H. Varner	John Neine	1910	75	6	75	Khe	850	65 15.1	July 1950 May 16, 1968	C, W	D, S	Well A-27 in 1957 Travis County report. Temp. 70°F. Texas Water Development Board observation well. 4/
* 801	Mrs. H. P. Hensel	S. W. Sanford	1948	125	6	40	Ktp	765	40 34.03	1949 May 15, 1968	C, G 1-1/2	D, S	Well A-25 in 1957 Travis County report. Open hole completion from 40 to 125 ft. Temp. 70°F. Texas Water Development Board observation well. 4/
* 802	do.	--	--	28	36	28	Khe	770	23.35 23.1	June 2, 1966 May 16, 1968	C, W	D	Well A-26 in 1957 Travis County report. Dug well with stone wall from 28 ft to surface. Temp. 66°F. Texas Water Development Board observation well. 4/
* 803	R. H. Henry	S. W. Sanford	1947	103	6	103	do.	860	74.32 73.45	July 13, 1950 May 16, 1968	J, E	D, S	Well A-27 in 1957 Travis County report. Temp. 70°F. Texas Water Development Board observation well. 4/
* 901	Mrs. H. P. Hensel	--	1944	75	6	--	do.	720	--	--	C, E	D, S	Temp. 71°F.
* 40-201	J. D. Singleton	Doyle Baker	1949	159	4	159	Kho	760	101 89.34	1949 May 16, 1968	Sub, E	D, S	Well B-9 in 1957 Travis County report. Slotted. Temp. 73°F. Texas Water Development Board observation well. 4/
* 202	do.	Wright Drilling Co.	1960	129	6	129	do.	725	--	--	C, E	D	Slotted. Temp. 73°F.
* 301	V. E. Grove	Sterzing Drilling Co.	1965	425	7 5	39 367	do.	970	300 240.49	Sept. 20, 1965 May 26, 1967	Sub, E	D, S	Open hole completion from 367 to 425 ft. Pumping level 325 ft at 12 gpm on Sept. 20, 1965. Temp. 73°F.
302	J. W. Bridgewater	Farrer Well Drilling Co.	1963	180	7	179	do.	715	70	Dec. 12, 1963	Sub, E 1/2	D	Slotted. Pumping level 103 ft at 15 gpm in Dec. 1966. Pump set at 168 ft. 1/
303	Emmett Bone	Sterzing Drilling Co.	1962	210	6	210	do.	695	60 16.20	July 28, 1962 May 16, 1968	--	D	Perforated from 165 to 185 ft. Cemented from 2 ft to surface. Texas Water Development Board observation well. 4/
304	Girl Scouts of America	do.	1966	256	7 4	226 256	Ktp	720	45 39.22	Mar. 4, 1966 May 17, 1968	Sub, E	P	Pumping level 56 ft at 23 gpm on Mar. 4, 1966. Cemented from 45 ft to surface. Texas Water Development Board observation well. 4/
501	Lower Colorado River Authority	--	1938	66	4	--	Khe	760	41.49	Apr. 19, 1967	--	N	--
* 801	Tom Tiner	Central Texas Drilling Co., Inc.	1967	305	7 5	259 305	Khe, Kho	820	180 126.12	Sept. 1967 May 27, 1968	Sub, E 3/4	D	Slotted from 100 to 110 and 265 to 305 ft. Reported yield 18 gpm. Texas Water Development Board observation well. 4/
48-601	Fred W. Shields	Kelley Water Well Service	1952	928	4	928	Kho	1,190	--	--	N	N	Completed from 850 to 928 ft. Cemented from 928 ft to surface. 3/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING DIAMETER (in.)	CASING DEPTH (ft)	WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL: ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	WATER LEVEL: DATE OF MEASUREMENT	METHOD OF LIFT	USE OF WATER	REMARKS
	YD-57-48-602	Fred W. Shields	J. R.-Bob-Johnson Drilling and Supply	1964	904	5	904	Kho	1,165	--	--	Sub, E	D, S	Perforated from 826 to 834 ft. Cemented from 904 ft to surface.
	901	do.	Sterzing Drilling Co.	1954	960	7	960	do.	1,060	245.2	Mar. 26, 1968	N	N	Well K-29 in 1957 Travis County report. Perforated from 775 to 815 ft. Cemented from 821 ft to surface. 1/
*	902	do.	George Spring Drilling Co.	1967	728	5	728	do.	1,056	--	--	Sub, E	D, S	Gun perforated with 10 shots 660 to 670 ft and 10 shots 690 to 700 ft. Cemented from 728 ft to surface. Temp. 75°F.
*	58-25-401	G. H. Rodgers	J. D. Henderson	1944	375	6	30	Kgr, Khe	960	60 3.99	Aug. 1944 May 16, 1968	C,W,G	D, S	Well A-15 in 1957 Travis County report. Open hole completion from 30 to 375 ft. Texas Water Development Board observation well. 4/
	403	do.	Arnold Insall	1910	425	8	--	Ktp	1,080	90.99	Nov. 7, 1940	N	N	Well A-27 in 1957 Travis County report. Well destroyed in 1967.
*	501	A. W. Lunsford	do.	1911	400	6	44	Kgr, Ktp	950	--	--	C, W	D, S	Open hole completion from 44 to 400 ft. Temp. 73°F.
*	801	George Agnew	Powell Drilling	1956	497	4	--	Ktp	890	99.88 102.7	May 31, 1966 May 16, 1968	C, W	D, S	Temp. 76°F. Texas Water Development Board observation well. 4/
*	802	Barnes-Jones Lumber Co.	do.	1961	600	8	--	Kgr, Ktp	855	286.4	Nov. 10, 1966	Sub, E	P	Temp. 73°F. Supplies Jonestown, Texas.
*	901	do.	do.	1966	643	7	535	do.	815	181.43 194.3	May 30, 1966 May 14, 1968	Sub, E	P	Open hole completion from 33 to 427 ft. Slotted from 535 to 630 ft. Pumping level 375 ft at 28 gpm. Temp. 73°F. Texas Water Development Board observation well. Supplies Jonestown, Texas. 2/ 4/
*	26-403	Leander Limestone Corp.	A. J. Bartuge	1948	888	7	367	do.	1,110	318.9 323.4	Apr. 18, 1967 May 14, 1968	N	N	Open hole completion from 367 to 888 ft. Estimated yield 28 gpm. Texas Water Development Board observation well. 4/
	404	do.	do.	1949	803	7	350	do.	1,110	334.5 324.9	Mar. 21, 1966 May 14, 1968	--, E	N	Open hole completion from 350 to 803 ft. Estimated yield 28 gpm. Texas Water Development Board observation well. 2/ 4/
	33-101	J. Syd Wheless	J. D. Henderson	1947	513	5	20	do.	930	237.3 233.2	June 2, 1966 May 16, 1968	C, W	D, S	Well C-6 in 1957 Travis County report. Open hole completion from 20 to 513 ft. Texas Water Development Board observation well. 4/
*	102	Dr. C. Paul Harris	Dick Sanders Drilling Co.	--	600	--	--	do.	1,100	--	--	Sub, E	P	Temp. 84°F.
*	103	J. Syd Wheless	Sterzing Drilling Co.	1962	926	7	810	Ktp	1,220	450	Sept. 20, 1962	Sub, E 7-1/2	D, S	Perforated from 526 to 631 and 694 to 799 ft. Reported yield 36 gpm. Cemented from 20 ft to surface. 1/ 2/
*	202	Barnes-Jones Lumber Co.	Powell Drilling	1966	365	7	68	Kgr, Ktp	880	188.7 194.2	June 15, 1966 May 16, 1968	C, E	D	Open hole completion from 68 to 365 ft. Reported yield 36 gpm. Temp. 71°F. Texas Water Development Board observation well. 2/ 4/
*	203	do.	J. D. Henderson	--	600	--	--	do.	780	173.36	Nov. 10, 1966	Sub, E	P	Temp. 70°F. Supplies Jonestown, Texas.
*	204	do.	do.	--	620	6	--	do.	1,110	459.5	do.	Sub, E	P	Temp. 69°F. Supplies Jonestown, Texas.
*	205	do.	Powell Drilling	1960	600	--	--	do.	870	--	--	Sub, E	P	Temp. 74°F. Supplies Jonestown, Texas.

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* YD-58-33-2D6	Emmett A. Jones	Powers Production Co.	1953	356	7	92	Kgr, Ktp	855	169.7	Nov. 8, 1966	N	N	Open hole completion from 92 to 356 ft. Temp. 72°F.
* 207	do.	J. D. Henderson	1949	525	6	44	do.	960	--	--	C, E	D	Open hole completion from 44 to 525 ft. Temp. 72°F.
208	-- Scott	Sterzing Drilling Co.	1963	630	8	98	do.	1,050	385	Apr. 22, 1963	C, E	D, S	Open hole completion from 98 to 630 ft. Pumping level 600 ft at 5 gpm in Apr. 1963.
* 301	John G. Johnson	do.	1963	545	7 6	65 208	Ktp	770	105 111.43	Feb. 27, 1963 May 30, 1966	Sub, E	P	Open hole completion from 208 to 545 ft. Pump set at 380 ft. Pumping level 260 ft at 15 gpm in Feb. 1963. Temp. 78°F.
* 302	John L. Chamberlain	Powell Drilling	1963	665	--	--	Kgr, Ktp	880	--	--	Sub, E 1-1/2	D	Temp. 78°F.
* 303	Weldon S. Horton	Sterzing Drilling Co.	1965	530	5	530	Ktp	720	75	Apr. 30, 1965	--	D	Reported yield 15 gpm. Temp. 71°F. 1/
* 304	Scott Broaddus	W. H. Glass and Son	1963	360	--	--	do.	740	--	--	Sub, E	D	Temp. 71°F.
305	Walter C. Schwarzer	Sterzing Drilling Co.	1966	345	7	207	do.	740	125 118.59	1966 May 14, 1968	--	D	Open hole completion from 207 to 345 ft. Pumping level 200 ft at 12 gpm in 1966. Texas Water Development Board observation well. 4/
* 401	Frank DeGroot	S. W. Glass Drilling	1938	422	6	14	Kgr, Ktp	970	342	Nov. 9, 1938	C, W	S	Well C-31 in 1957 Travis County report. Open hole completion from 14 to 422 ft. Reported 80 ft drawdown after bailing 5 gpm for 40 minutes. Temp. 73°F. 1/
* 402	Iveau Pearson	Andrey E. Samford	1964	535	7	30	do.	950	231.5	June 1, 1966	C, W	S	Open hole completion from 30 to 535 ft with 20 ft liner opposite salt water sand in the Glen Rose Formation. Pump set at 400 ft.
* 403	J. H. Shepler	Layne Texas Co.	1965	462	8 6	446 462	Kho	770	90 130.37	Oct. 1965 May 15, 1968	Sub, E 3	N	Slotted from 446 to 459 ft. Pumping level 244.31 ft at 23.5 gpm on Apr. 13, 1967. Pump set at 400 ft. Cemented. Temp. 74°F. Texas Water Development Board observation well. 2/ 4/
* 501	John G. Johnson	Sterzing Drilling Co.	1962	422	7	25	Kgr, Ktp	785	167.8 162.6	Nov. 3, 1966 Apr. 12, 1967	Sub, E 3/4	P	Open hole completion from 25 to 422 ft. Reported yield 5 gpm. Texas Water Development Board observation well. 4/
* 502	-- Walters	S. W. Glass Drilling	1951	520	8	490	Kho	715	90 39.72	Sept. 7, 1951 Nov. 21, 1966	Sub, E 1/2	D	Well C-89 in 1957 Travis County report. Open hole completion from 490 to 520 ft. Pump set at 200 ft. Reported yield 10 gpm. Temp. 72°F.
* 601	John G. Johnson	Sterzing Drilling Co.	1962	422	7	44	Kgr, Ktp	740	140	--	Sub, E 1-1/2	P	Open hole completion from 44 to 422 ft. Reported yield 10 gpm. Cemented from 5 ft to surface. Temp. 69°F.
* 602	D. C. Reed Estate	Ray Benton Bonnett	--	802	7	250	do.	1,060	--	--	C, W	S	Open hole completion from 250 to 802 ft. Temp. 81°F.
* 603	R. C. Roberts	F. S. Berry	1939	440	--	--	do.	830	--	--	C, E	D	Well C-29 in 1957 Travis County report. Temp. 66°F.
* 604	Dodd & Reed	do.	1939	390	6	--	Kgr, Khc	815	--	--	Sub, E	D	Well C-26 in 1957 Travis County Report.

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
*	YD-58-33-605	Mrs. M. B. Cire	F. S. Berry	1939	440	6	340	Ktp	800	--	--	Sub, E 1	D	Well C-27 in 1957 Travis County report. Open hole completion from 340 to 440 ft. Temp. 74°F.
	606	-- Cain	-- Glass Drilling	1965	404	7	5	Kgr, Ktp	770	143	Nov. 18, 1965	Sub, E 1-1/2	D	Open hole completion from 5 to 404 ft. Pump set at 357 ft. Reported yield 8 gpm. Cemented from 5 ft to surface.
	607	Ralph Q. Queen	do.	1966	437	7	15	do.	780	140	Jan. 5, 1966	Sub, E	D	Open hole completion from 15 to 437 ft. Reported yield 8 gpm. Cemented from 15 ft to surface.
*	609	Marvin Kruez	Sterzing Drilling Co.	1963	480	6	209	do.	730	--	--	Sub, E	D	Well deepened from 417 to 709 ft. Open hole completion from 209 to 480 ft. Temp. 73°F. Well drilled to 709 ft and plugged back to 480 ft.
*	610	Oliver Crumley	Jimmie Calhoun Drilling & Service	1950	215	6	20	Kgr	725	--	--	C, E	D	Open hole completion from 20 to 215 ft. Temp. 74°F.
	611	Charles Dwyer	Sterzing Drilling Co.	1966	512	7	44	Kgr, Ktp	840	250.3 231.1	Dec. 5, 1966 May 14, 1968	Sub, E	D	Open hole completion from 44 to 512 ft. Reported yield 15 gpm. Texas Water Development Board observation well. 4/
*	612	John D. Strickland	--	--	201	4	--	Kgr, Khe	720	60.60	Nov. 18, 1966	N	N	Temp. 71°F.
	613	John R. Stidham	Sterzing Drilling Co.	1963	670	7	270	Kgr, Ktp	990	430	Apr. 28, 1963	Sub, E 1-1/2	D	Open hole completion from 270 to 670 ft. Reported yield 10 gpm.
	614	E. S. Burks	do.	1964	407	7	22	do.	730	--	--	--	D	Open hole completion from 22 to 407 ft.
*	615	Lula Lung Powell	Wright Drilling Co.	1967	675	7 5	600 675	Kho, P	720	33.1 91.63	Jun. 29, 1968 May 14, 1968	Sub, E 1-1/2	D	Slotted from 606 to 627 and 665 to 675 ft. Pump set at 300 ft. Measured yield 20 gpm. Temp. 70°F. Texas Water Development Board observation well. 1/ 4/
*	801	F. W. Sternenberg	J. R.-Bob-Johnson Drilling and Supply	1939	725	6	--	Kgr, Ktp	830	85 206.26	Nov. 1939 Apr. 26, 1968	Sub, N 3	D, Irr	Well C-91 in 1957 Travis County report. Texas Water Development Board observation well. 4/
*	802	Mrs. C. S. Clark	Sterzing Drilling Co.	1953	641	5	555	Kho	820	200 155.7	1953 Feb. 8, 1953	C, E	D	Well C-92 in 1957 Travis County report. Open hole completion from 555 to 641 ft. Reported yield 24 gpm.
*	803	B. A. Steinhagen	J. R.-Bob-Johnson Drilling and Supply	1939	620	5	566	do.	830	219.5 225	Nov. 3, 1939 Nov. 6, 1939	C, E	D	Well C-62 in 1957 Travis County report. Open hole completion from 566 to 620 ft. Drawdown reported 3 ft after well was bailed at 40 gpm for 3 minutes. 1/
*	804	R. E. Tears	A. J. Hayden	1947	598	8	12	Kgr, Ktp	820	120	1947	Sub, N 3	D	Well C-60 in 1957 Travis County report. Open hole completion from 12 to 598 ft. Temp. 73°F.
*	805	Apache Shores Utilities Co.	Central Texas Drilling Co., Inc.	1968	720	7 5	475 720	Kho	780	90 146.0	Apr. 18, 1968 Apr. 26, 1968	Sub, E 15	P	Perforated from 500 to 548 and 680 to 720 ft. Pumping level 120 ft at 27 gpm on Apr. 18, 1968. Cemented from 475 to 250 ft. Temp. 76°F. 2/
*	901	Dudley Cotton	Sterzing Drilling Co.	1964	687	7 4	148 687	do.	780	117.83 101.98	May 27, 1966 May 14, 1968	Sub, E	D	Completed from 572 to 687 ft. Reported yield 15 gpm. Temp. 72°F. Texas Water Development Board observation well. 4/
*	902	Bureau of Reclamation, U.S. Department of the Interior	J. R.-Bob-Johnson Drilling and Supply	1937	716	6 5	528 716	do.	750	--	--	C, E	N	Well C-55 in 1957 Travis County report. Perforated from 628 to 716 ft. Reported yield 15 gpm. Well caved at 20 ft.

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* YD 58-33-904	Gene Norman and E. T. Holly	J. R.-Bob-Johnson Drilling & Supply	1937	500	6	500	Ktp	760	400	Nov. 19, 1940	C, E 8	P	Well C-53 in 1957 Travis County report.
905	Olen Hager	Raymond Oren Whisenant	1966	260	7	80	Kgr, Kho	720	127.78	May 13, 1968	N	N	Open hole completion from 80 to 260 ft.
* 34-401	J. D. Hill	S. W. Glass Drilling	1953	821	8 6	-- 600	Kho	750	100	1953	N	N	Well C-90 in 1957 Travis County report. Open hole completion from 600 to 821 ft. Well plugged and abandoned. 1/
402	do.	do.	1954	650	7	600	do.	730	137	1954	J, E	N	Well C-94 in 1957 Travis County report. Open hole completion from 600 to 650 ft. Water reported to be highly mineralized.
* 603	Balcones Country Club	Sterzing Drilling Co.	1960	1,253	7	980	do.	940	65 71.4	Nov. 1960 May 16, 1968	Sub, E	Irr	Well deepened from 1,118 to 1,253 ft. Open hole completion from 980 to 1,253 ft. Pumping level 280 ft at 6.3 gpm on Apr. 11, 12, 1967. Pumping level 321 ft at 23 gpm on July 6, 1967. Pump set at 480 ft. Estimated yield 25 gpm. Obstruction at 1,100 ft. Texas Water Development Board observation well. 1/ 2/ 4/
604	do.	do.	1959	850	--	--	Ktp	935	94.3 45.8	Feb. 16, 1967 May 16, 1968	Sub, E	N	Reported yield 45 gpm. Texas Water Development Board observation well. 4/
* 703	Earl Blackmore	do.	1965	650	7	407	Kgr, Kho	1,020	280 454.3	Oct. 29, 1965 Apr. 12, 1967	--	D	Open hole completion from 407 to 650 ft. Pumping level 350 ft at 15 gpm on Oct. 29, 1965. Temp. 75°F. 1/
* 801	W. L. Richards	A. J. Bartuge	1949	968	5	710	Kho	740	126 153.0	Feb. 27, 1950 May 25, 1968	--	D	Well D-10 in 1957 Travis County report. Well deepened from 145 to 968 ft. Open hole completion from 710 to 968 ft. Texas Water Development Board observation well. 1/ 4/
35-402	Austin White Lime Co.	Central Texas Drilling Co., Inc.	--	250	--	--	Kea	835	--	--	C, E 2	P, Ind	Well supplies McNeil, Texas.
403	do.	Sterzing Drilling Co.	1964	54	10	54	do.	845	15	--	C, E 2	P, Ind	Perforated. Reported yield 75 gpm. Well supplies McNeil, Texas.
404	do.	do.	1959	410	7	180	do.	840	58.2	Jan. 23, 1969	Sub, E 1-1/2	P, Ind	Open hole completion from 180 to 410 ft. Reported yield 25 gpm. Well supplies McNeil, Texas.
405	do.	do.	1959	100	7	70	do.	845	60	--	N	N	--
406	do.	do.	1962	406	7	32	do.	835	150 58.2	Aug. 20, 1962 Jan. 23, 1969	N	N	Open hole completion from 32 to 406 ft. Reported yield 18 gpm. Cemented from 5 ft to surface.
407	do.	Virdell Brothers Drilling Co.	1952	391	--	15	do.	840	62 58.2	Jan. 1952 Jan. 23, 1969	Sub, E 3	N	Open hole completion from 15 to 396 ft.
408	do.	do.	1953	370	10 8	-- 63	do.	840	130 64.5	June 1953 Jan. 23, 1969	Sub, E 2	N	Open hole completion from 63 to 370 ft. Reported yield 21 gpm. 1/
409	do.	Sterzing Drilling Co.	1963	200	7	50	do.	840	160	Apr. 18, 1963	T, E 34	N	Open hole completion from 50 to 200 ft. Reported yield 5 gpm. Cemented from 3 ft to surface.
* 701	The University of Texas	Texas Water Wells	1942	610	10	228	do.	790	164.4 222.3	Oct. 29, 1942 May 19, 1952	Sub, E 42	Ind, Irr	Well D-72 in 1957 Travis County report. Open hole completion from 228 to 610 ft. Pumping level 236 ft at 185 gpm on Oct. 29, 1942. Cemented from 228 ft to surface.
* 803	A. W. Cox	--	1900	1,400	7	20	do.	660	12.82 12.96	June 5, 1940 May 20, 1966	Sub, E	P	Well D-59 in 1957 Travis County report. Open hole completion from 20 to 1,400 ft.

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* YD-58-41-301	George Fulford	W. H. Glass and Son	1967	489	7	482	Kbe	740	72.18	May 13, 1968	Sub, E 2	D	Open hole completion from 482 to 489 ft. Pump set at 360 ft. Reported yield 15 gpm. Cemented from 475 ft to surface. Texas Water Development Board observation well. 1/ 4/
* 701	Fred W. Shields	George Spring Drilling Co.	1967	628	5	628	Kho	750	288.9	Mar. 26, 1968	Sub, E	D, S	Perforated from 540 to 547 ft. Pump set at 500 ft. Cemented from 628 ft to surface. Temp. 70°F.
* 42-101	Frank Tull	W. H. Glass and Son	1966	499	7	480	do.	520	+ 31.0	May 30, 1966	Flows	D	Open hole completion from 480 to 499 ft. Measured flow 1.75 gpm. Temp. 74°F. 2/
* 102	Dr. Joe J. Hanus	Sterzing Drilling Co.	1959	490	7	393	do.	500	+	--	Flows	D	Open hole completion from 393 to 490 ft. Estimated flow 3 gpm. Temp. 74°F.
* 103	Devereux School	A. C. Clements	1950	466	6	466	Ktp	640	125.92	Nov. 18, 1966	Sub, E	D	Well C-79 in 1957 Travis County report. Temp. 67°F. 3/
202	Marion Fowler	S. W. Glass Drilling	1965	651	6	572	Kho	660	134.04 149.73	May 25, 1966 May 14, 1968	Sub, E 10	P	Open hole completion from 572 to 651 ft. Pump set at 400 ft. Cemented from 572 ft to surface. Texas Water Development Board observation well. 1/ 2/ 4/
203	Dewitt Langford	Texas Water Wells	1951	920	8 6	860 860	do.	600	18.75	Mar. 4, 1955	N	N	Well D-178 in 1957 Travis County report. Screened from 860 to 920 ft. Reported yield 10 gpm. Cemented from 860 ft to surface. Well drilled to 1,127 ft and plugged back to 920 ft. 1/
* 301	Boy Scouts of America	J. R.-Bob-Johnson Drilling and Supply	--	852	8 6	-- --	Ktp	510	+ 37 + 1.1	Sept. 1934 May 25, 1966	Flows	P	Well D-168 in 1957 Travis County report. Measured flow 40 gpm. Temp. 78°F.
* 302	M. E. Hart	do.	1950	1,135	6	794	do.	810	150 288.18	Mar. 1950 May 14, 1968	Sub, E 10	D	Well D-163 in 1957 Travis County report. Slotted from 691 to 794 ft and open hole completion from 794 to 1,135 ft. Pumping level 250 ft at 50 gpm in Mar. 1950. Pump set at 450 ft. Temp. 83°F. Well drilled to 1,138 ft. Texas Water Development Board observation well. 1/ 4/
303	David B. Barrow	W. H. Glass and Son	1959	1,251	9	550	Kgr, Ktp	790	225.1 207.82	Apr. 10, 1967 May 14, 1968	--	N	Open hole completion from 550 to 1,251 ft. Texas Water Development Board observation well. 2/ 4/
* 401	Clifton S. Winstead	S. W. Glass Drilling	1950	716	8	625	Ktp	820	212 242.3 243.75	Apr. 13, 1951 May 30, 1966 May 19, 1967	Sub, E 1-1/4	P	Well J-20 in 1957 Travis County report. Well deepened from 690 to 716 ft in May 1951. Open hole completion from 625 to 716 ft. Reported drawdown 65 ft at 10 gpm after pumping 1 hour. Pump set at 363 ft. 1/
402	do.	Sterzing Drilling Co.	1962	930	7 5	649 930	do.	830	240 273.67	Oct. 12, 1962 May 19, 1967	Sub, E	P	Cemented from 449 to 649 ft. Well drilled to 1,100 ft but plugged back to 930 ft. Texas Water Development Board observation well. 4/
* 501	West Lake Water Supply Corp.	Farrer Well Drilling Co.	1954	941	7	857	do.	990	392 419.53	Apr. 14, 1954 May 13, 1968	N	N	Well H-217 in 1957 Travis County report. Open hole completion from 857 to 931 ft. Pumping level 482 ft at 17 gpm on Apr. 14, 1954. Reported yield 27 gpm. Texas Water Development Board observation well. 4/

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* YD-58-42-502	St. Stephens Episcopal School	Layne Texas Co.	1949	1,015	8 6 4	290 640 1,015	Ktp	753	158 152 223.44	June 17, 1949 Aug. 1950 May 19, 1966	T, E 3	F	Well H 212 in 1957 Travis County report. Screened from 638 to 688, 774 to 814, and 928 to 1,014 ft. Pump set at 250 ft. Reported yield 39 gpm. Cemented from 229 ft to surface. 1/ 2/
* 503	Fred Morris	Charles Calhoun	1955	987	11 5 3	4 647 985	Kho	685	145 127.78	Apr. 5, 1955 May 13, 1968	C, E 1	D	Well H-210 in 1957 Travis County report. Slotted from 925 to 985 ft. Drawdown 19 ft after bailing for 11 minutes at 17 gpm. Cemented from 4 ft to surface. Texas Water Development Board observation well. 1/ 2/ 4/
* 504	West Lake Water Supply Corp.	S. W. Glass Drilling	1954	786	7	669	do.	740	206 185.48	July 16, 1954 May 13, 1968	N	N	Well H-196 in 1957 Travis County report. Open hole completion from 669 to 786 ft. Pumping level 318 ft at 16.7 gpm on May 13, 1955. Temp. 76°F. Well plugged and abandoned. Texas Water Development Board observation well. 2/ 4/
* 505	E. U. Shelton	A. C. Clements	1947	961	4	961	Ktp	954	346.0	Aug. 1952	C, E 5	N	Well H-42 in 1957 Travis County report. Pump set at 630 ft.
* 506	Mike Butler	do.	1950	938	5 4	802 847	Kho	872	--	--	C, E 3	D	Well H-40 in 1957 Travis County report. Well deepened from 556 to 938 ft. Open hole completion from 847 to 938 ft. Pump set at 526 ft. Cemented from 802 ft to surface.
* 507	Ralph E. Jones	Sterzing Drilling Co.	1955	1,045	6 5 4	790 813 1,045	do.	880	320	Apr. 1955	Sub, E	D	Well H-209 in 1957 Travis County report. Slotted from 919 to 1,045 ft. Drawdown approximately 180 ft after pumping 12 hours at 15 gpm. Temp. 81°F..
* 508	Wan Williams	Farrer Well Drilling Co.	1954	500	7	300	Kgr	880	342	Sept. 21, 1954	C, E	D	Well H-195 in 1957 Travis County report. Open hole completion from surface to 279 ft and from 300 to 500 ft. Reported drawdown 60 ft when bailing at 15 gpm in Sept. 1954.
* 701	Marshall and Troupe	Shell Oil Co.	1931	900	8	946	Kho	845	200 242.06	Mar. 1939 May 19, 1967	C, E	D, S	Well J-22 in 1957 Travis County report. Perforated. Temp. 74°F. Well originally drilled as oil test to 1,835 ft and plugged back to 900 ft. Texas Water Development Board observation well. 1/ 4/
* 802	Country Day School	A. C. Clements & S. W. Glass Drilling	1946	1,043	7	760	Kho	740	149 172.59	June 4, 1949 May 13, 1968	T, C 22	P	Well H-49 in 1957 Travis County report. Well deepened from 922 to 1,043 ft. Open hole completion from 760 to 1,043 ft. Pump set at 320 ft. Texas Water Development Board observation well. 4/
* 803	R. D. Johnson	Farrer Well Drilling Co.	1955	897	7	107	Kgr, Ktp	760	280 208	-- Mar. 11, 1955	N	D	Well H-205 in 1957 Travis County report. Open hole completion from 107 to 897 ft. Reported yield 22 gpm. 1/
804	West Lake Hill Presbyterian Church	Sterzing Drilling Co.	1956	1,035	7	222	do.	750	247 240	Mar. 10, 1955 Dec. 1956	N	D	Well H-206 in 1957 Travis County report. Well deepened from 349 to 1,035 ft. Open hole completion from 222 to 1,035 ft. Reported yield 15 gpm.
* 805	Kanes School	S. W. Glass Drilling	1954	876	7	705	Ktp	770	184	Dec. 1, 1954	--	Irr	Well H-197 in 1957 Travis County report. Open hole completion from 705 to 876 ft. Reported drawdown 190 ft when bailing at 22 gpm in Nov. 1954.
* 43-102	Dr. E. W. Wuppermann	A. J. Bartuge	1950	909	5	730	do.	800	185 146.9	1950 June 24, 1952	N	N	Well D-118 in 1957 Travis County report. Reported yield 20 gpm. Well capped.

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* YD-58-43-401	State of Texas	H. McGillvray	1895	1,975	--	--	Ktp	635	+ 40	1895	T, E	N	Well H-19 in 1957 Travis County report. Reported flows 104 gpm when drilled. Well destroyed. 1/
* 702	do.	--	1890	1,554	8	--	do.	543	+ 30.0 + 35.0	May 17, 1966 Apr. 24, 1968	Flows	P	Well H-67 in 1957 Travis County report. Flowing level +1.3 ft at 12.8 gpm on Nov. 23, 1964. Reported flow 60 gpm in 1890. Temp. 95°F. Texas Water Development Board observation well. 3/ 4/
* 703	Driskill Hotel	--	1900	2,250	5	1,580	Kho	495	+ 66 + 50.0	1941 Apr. 24, 1968	Flows	P	Well H-69 in 1957 Travis County report. Open hole completion from 1,580 to 2,250 ft. Flowing level +16.8 ft at 19.6 gpm on Oct. 15, 1964. Temp. 95°F. Texas Water Development Board observation well. 3/ 4/
* 704	F. B. Perry	H. McGillvray	1899	2,025	10 8 7 6	300 900 1,200 1,400	do.	485	+ 38	Sept. 8, 1937	N	D	Well H-70 in 1957 Travis County report. Open hole completion from 1,400 to 2,025 ft. Reported flow 170 gpm in 1899. Temp. 100°F. 1/
* 801	Stanley Smith and Menking	--	1916	1,147	6	--	Ktp	480	+ 92 + 52	1938 June 11, 1956	Flows	N	Well H-71 in 1957 Travis County report. Flowing level 0 at 40 gpm on June 12, 1956. Reported flow 200 gpm in 1938. 3/
* 44-201	City of Manor	W. B. Hinton	1936	3,001	8 6 4	1,807 2,785 3,001	Kho	535	+ 116 + 80 + 54	1936 Mar. 20, 1941 June 2, 1949	Sub, E Flows	P	Well E-46 in 1957 Travis County report. Screened from 2,941 to 3,001 ft. Flowing level + 3.5 at 48.8 gpm on June 2, 1949. Reported flow 150 gpm in 1936 and 110 gpm on Mar 20, 1941. Cemented from 1,807 ft to surface. Temp. 110°F. 3/
202	do.	Boppright and H. McGillvray	1895	2,560	6 4	-- 2,560	Ktp	535	100	1895	N	N	Well E-48 in 1957 Travis County report. Perforated from -- to 2,560 ft. Reported flow 70 gpm. Temp. 93°F. Casing collapsed in 1910. 1/
* 601	James P. Nash	Brewster and Bartle	1952	3,250	5	3,000	Kho	608	12	1960	Sub, E	S	Open hole completion 3,000 to 3,250 ft. Pumping level 80 ft at 100 gpm. Cemented from 3,000 ft to surface. Temp. 94°F. Well originally drilled as oil test to 4,507 ft and plugged back to 3,250 ft. 3/
* 51-102	City of Austin	Layne Texas Co.	1932	2,246	6 5 4	1,634 1,878 2,246	do.	530	+ 66 1.37	Oct. 29, 1932 Apr. 25, 1968	T, E 7-1/2	N	Well H-87 in 1957 Travis County report. Perforated from 1,709 to 1,731, 1,772 to 1,817, 1,837 to 1,859, 1,879 to 2,077, 2,099 to 2,118, and 2,140 to 2,224 ft. Reported flow 112 gpm in Oct. 1932. Reported yield 200 gpm in 1937. Temp. 100°F. Texas Water Development Board observation well. 1/ 3/ 4/
* 103	O. O. Norwood	-- Garrick	1929	1,595	8	1,595	Ktp	475	+ 102 + 74.0	1929 Apr. 24, 1968	Flows	N	Well H-86 in 1957 Travis County report. Reported flow 83 gpm in 1929. Temp. 94°F. Texas Water Development Board observation well. 4/
* 701	D. Collins	E. Nalle, et al.	1930	2,425	4	--	do.	575	+	Aug. 18, 1937	N	S	Well L-22 in 1957 Travis County report. Temp. 93°F.

See footnotes at end of table.

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* YD-58-51-901	Clause Philquist	Allen and Stolley	1929	3,008	10 6	114 2,719	Kho	480	+ 92 + 80	Apr. 1929 1937	N	N	Well L-31 in 1957 Travis County report. Open hole completion from 2,719 to 3,008 ft. Reported flow 35 gpm on Dec. 9, 1939. Temp. 100°F. Originally drilled as oil test. Well destroyed. 1/

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I.
4/ For water-level measurements, see Table 4.

TRAVIS COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
YD-58-25-402	P. F. Griffin	G. H. Rodgers No. 1	1919	789	1,024	D
33-201	Powers Production Co.	E. A. Jones No. 1	1953	3,000	855	D,E
701	—	Bureau of Reclamation—U.S. Dept. of the Interior	1936	100	573	D
903	—	do.	1936	344	538	D
35-709	Texas Water Supply Co.	The University of Texas	1942	1,833	785	D

Table 3.—Drillers' Logs of Selected Wells

Well YD-57-40-302

Owner: J. W. Bridgewater
Driller: Farrer Well Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Sand, gravel	30	30
Hard, gray lime	23	53
White lime	12	65
Blue clay	8	73
Light red clay	12	85
Red clay with dark gravel	22	107
Tan, sand rock, hard	6	113
Dark red clay	12	125
Red clay, sand, and gravel (water)	12	137
Hard, tan sand rock	6	143
Red clay, gravel	24	167
Coarse gravel	7	174
Fine white sand, second Trinity, lots of water	6	180

Well YD-57-48-901

Owner: Fred W. Shields
Driller: Sterzing Drilling Co.
(Log from Texas Board of Water Engineers Bulletin 5708)

	THICKNESS (FEET)	DEPTH (FEET)
Boulders and gravel	20	20
Rock	100	120
Limestone	450	570
Clay, blue	33	603
Rock	22	625
Rock, sandy	15	640
Clay, brown	62	702
Clay, pink	41	743
Shale, blue	3	746
Clay, light-brown	4	750
Shale, blue	5	755
Gravel	3	758
Shale	3	761
Rock, hard	29	790
Shale, green	100	890
Sand	70	960

Well YD-58-25-402

Owner: G. H. Rodgers
Driller: P. F. Griffin
(Partial log)

	THICKNESS (FEET)	DEPTH (FEET)
Lime and sandstone	49	49
Limestone, gray	35	84
Limestone, gray, shelly	46	130
Limestone, shelly	85	215
Lime and sandstone	36	251
Gumbo, blue	7	258
Limestone	107	365
Limestone, and shale	14	379
Gravel, coarse-grained, water-bearing	66	445
Gravel, coarse-grained, water-bearing, lime	35	480
Limestone boulders, hard, blue gumbo in layers	11	491
Lime, gypsum, blue gumbo in layers	17	508
Limestone	6	514
Limestone, hard	15	529
Shell, hard layers of limestone	7	536
Shale, shelly, shell, and hard limestone, shale in layers	5	541
Gumbo, brown and blue in layers	17	558
Sand rock	6	564
Gumbo, chocolate-colored	17	581
Limestone, hard	1	582
Shale, brown and blue	4	586
Shale, brown and blue, boulders	26	612
Gravel, red, and gumbo	12	624
Limestone	15	639
Gumbo, red	15	654
Gumbo, blue, lime layers	3	657
Lime and blue gumbo in layers	8	665
Gumbo, blue, and lime layers	7	672
Lime and gypsum in layers	4	676
Gypsum and lime	3	679

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-25-402—Continued		
Lime rock	20	699
Lime, gray, shelly	29	728
Shale and gumbo in thin layers	15	743
Shale, blue and brown, gumbo with sand and sulfur	30	773
Gumbo, blue with sand	5	778
Shale, blue, and sand	3	781
Corrected depth	—	653
Shale, gumbo, boulders	15	668
Gumbo, blue and shale	88	756
Shale, blue and brown gumbo	10	766
Shale, gumbo, and lime	5	771
Gumbo, blue	3	774
Sand and lime	2	776
Lime, sand, and gumbo	12	788
Lime and sand	5	793
Sand, dark gray	2	795
Lime, and sand rock	8	803
Shale, black	12	815
Corrected depth	—	764
Lime, and sand rock	4	768
Iron, rock	6	774
Slate	11	785
Slate, iron, rock	3	788
Gumbo, blue white, and gravel	4	792
Slate	12	804
Corrected depth	—	789
Well YD-58-33-103		
Owner: J. Syd Wheless Driller: Sterzing Drilling Co.		
Ream old well	628	628
Water, rock	25	653
Brown rock	17	670
Gray lime	60	730
Travis Peak shale	57	787
Blue shale	3	790
Hard cap	.5	790.5
Hard Trinity sand	9.5	800
Trinity sand	13	813
Hard, shop lime	5	818
Sandy	37	855
Streaks of red shale	5	860
Sand	7	867
Hard, green shale	6	873
Sand	11	884
Soft sand	21	905
Brown, hard cap	7	912
Green shale	14	926
Well YD-58-33-201		
Owner: E. A. Jones Driller: Powers Production Co. (Log from Texas Board of Water Engineers Bulletin 5708)		
Limestone, gray, with much gypsum	325	325
Sand	30	355
Limestone, grayish-white	30	385
Limestone, grayish-white, and gypsum	11	396
Limestone, grayish-white	41	437
Limestone, grayish-white, and pyrite	9	446
Sandstone, soft, fine	6	452
Sandy limestone	23	475
Sand	32	507
Sand, red	4	511
Sand and gravel	16	527
Sand	12	539
Sand, red	21	560
Sand and rock fragments, red	25	585
Sand, with some chert	45	630
Gravel, cherty, red and yellow	16	646
Clay, blue, and rock fragments	34	680
Gravel	6	686
No record	9	695
Sandstone and shale, dark gray, very hard	2,305	3,000

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

Well YD-58-33-303

Owner: Weldon S. Horton
Driller: Sterzing Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Surface	5	5
Gravel and hard cap	45	50
Gray lime	60	110
Blue lime	15	125
Gray lime	115	240
Blue clay	10	250
Gray lime	70	320
Blue clay	30	350
Gray lime	15	365
Travis Peak	135	500
Trinity sand	30	530

Well YD-58-33-401

Owner: Frank DeGroot
Driller: S. W. Glass Drilling
(Log from Texas Board of Water Engineers Bulletin 5708)

Limestone, white and yellow	14	14
Limestone, gummy, blue	326	340
Limestone, blue, with grit	50	390
Limestone, white, and sand	16	406
Sand	16	422

Well YD-58-33-615

Owner: Lula Lung Powell
Driller: Wright Drilling Co.

Lime and shale	275	275
Sandstone	9	284
Shale	3	287
Sandstone	26	313
Lime	27	340
Shale and limestone	5	345
Lime and shale	30	375
Shale	48	423
Lime	7	430
Sand (tight)	5	435
Sand and lime shells	10	445
Sand and shale	17	462
Water sand	3	465
Conglomerate	10	475

Well YD-58-33-615—Continued

Sand	2	477
Red bed	3	480
Red bed	14	494
Shale and sandy lime (from 500 ft on driller had heaving shale problem)	181	675

Well YD-58-33-701

Owner: Bureau of Reclamation, U.S. Department of the Interior
Driller: Unknown
(Log from Texas Board of Water Engineers Bulletin 5708)

River sand and gravel	16	16
Clay, red, and pebbles	5	21
Clay, soft, red	4	25
Sand, fine-grained, unconsolidated	1.5	26.5
Clay, soft, red, with occasional seams and patches of very fine poorly consolidated quartz sand	18.5	45
Conglomerate, loosely cemented, rounded pebbles, flowed 1/2 gpm	2	47
Clay, red, marly spots	3	50
Clay, soft, red, sandy at bottom	10	60
Sand, quartz, very fine	5	65
Quartz grains, rounded, in marly cement	1	66
Sand, fine	5	72
Pebble conglomerate, loosely cemented, some clay	9	81
Clay, red, sandy	4	85
Limestone pebbles conglomerate	1	86
Marl, fine-grained, sandy, and clay	3	89
Marl, fine-grained, dense, with small pebbles	3	92
Marl, fine-grained, dense, multi-colored, and pebbles conglomerate in lime matrix	8	100

Well YD-58-33-803

Owner: B. A. Steinhagen
Driller: J. R. -Bob- Johnson Drilling and Supply
(Log from Texas Board of Water Engineers Bulletin 5708)

Soil	1	1
Adobe	3	4

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-33-803—Continued		
Lime, yellow	8	12
Lime, blue	8	20
Lime, broken	60	80
Lime, blue	92	172
Shale, blue	13	185
Lime, blue	115	300
Shale, blue	9	309
Lime, blue	31	340
Lime, gray	32	372
Cap rock	8	380
Sand	4	384
Shale	2	386
Sand	2	388
Shale	3	391
Sand	11	402
Lime, blue, porous	121	523
Shale, blue, sticky	29	552
Shale, red, sticky	12	564
Trinity sand	56	620
Well YD-58-33-903		
Owner: Bureau of Reclamation, U.S. Department of the Interior Driller: Unknown (Log from Texas Board of Water Engineers Bulletin 5708)		
River silt and sand	43.5	43.5
Boulders, sand, and gravel	6.5	50
Limestone, soft, weathered	3	53
Limestone, hard, fine, dense, small shells	1.17	54.17
Limestone, fossil	6.5	60.67
Full of small shells	8	68.67
Fossil limestone, argillaceous seams	1.17	69.84
Limestone, fine, dense	1.08	70.92
Full of small shells	5.33	76.25
Fossil limestone, last 2 feet granular	5.25	81.5
Limestone, argillaceous	2	83.5
Limestone, fine, white, granular	2	85.5
Full of small shells	1.25	86.75
Fossil limestone	5.25	92
Full of small shells	4.92	96.92

	THICKNESS (FEET)	DEPTH (FEET)
Well YD-48-33-903—Continued		
Limestone, dark-gray, argillaceous, some small fossils	10.33	107.25
Limestone, patchy	2.75	110
Limestone, dark-gray, full of small shells	9.08	119.08
Limestone, patchy	4.5	123.58
Limestone, soft, dark-gray, fine, dense	9.68	133.26
Limestone, white, granular	1	134.26
Marl	.5	134.76
Limestone, white, granular, extremely porous zones last 3 ft	8.08	142.84
Limestone, fine, dense	5.17	148.01
Limestone, fine, arenaceous	5.75	153.76
Limestone, dark, fine grain, very fossiliferous, porous	10.75	164.51
Shell limestone	3.5	168.01
Limestone, patchy	2	170.01
Limestone, fine, dense, few small shells	6.83	176.84
Limestone, very fossiliferous	9.25	186.09
Limestone, fine, dense, fossil	3.5	189.59
Limestone, fine, dense	3	192.59
Limestone, fossil	.83	193.42
Limestone, dark, argillaceous	.92	194.34
Fossil limestone	4.25	198.59
Limestone, fine, dense sandy, few fossils last 3 ft	15.25	213.84
Limestone, fine, dense fossiliferous	3	216.84
Full of small shells	2.08	218.92
Fossil limestone	1.08	220
Limestone, argillaceous, fossil	1	221
Limestone, porous, shell	4.68	225.68
Shell reef - *Ostrea*	4.58	230.26
Limestone, fine, dense, dark-gray, slightly sandy	4.25	234.51
Limestone, very fossiliferous	1.5	236.01
Limestone, dark, fine, dense	.68	236.69
Limestone, very fossiliferous	4	240.69
Limestone, fine, dense, dark-gray, and alternating beds of fossil limestone	4	244.69
Limestone, very fossiliferous	1.5	246.19

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-33-903—Continued		
Shale, soft, dark-gray, calcareous	3.83	250.02
Limestone, thin, shaly, dark-gray, friable, and broken	4.75	254.77
Limestone, fossil, soft limestone layer 257 ft, 7 in. to 258 ft	4.17	258.94
Limestone, shaly, friable	2.58	261.52
Shale, soft, dark-gray, calcareous	2.5	264.02
Clay, soft, dark, broken, shale	2.33	266.35
Clay, soft, dark-gray, shale and marl	6	272.35
Shale, sandy, calcareous, friable	2.25	274.60
Shale, sandy, and sand, very soft	8.33	282.93
Limestone, sandy, full of small shells	.58	283.57
Sandstone, calcareous, calcite crystals, few small shells	4.92	288.43
Limestone, sandy shell, very porous, artesian water	5	293.43
Sandstone, dark, calcareous, small shell fragments	5.25	298.68
Limestone, sandy, few dense shell fragments	6.58	305.26
Shale, fine, calcareous, sandy	3.68	308.94
Sandstone, calcareous binder	2	310.94
Clay, red and white, calcareous cement	7	317.94
Sandstone, fine, white	3.5	321.44
Clay, sandy, and sand	5.83	327.27
Sandstone, fine, white	2	329.27
Clay, red and white, sandy	3.68	332.95
Clay, soft, red	2.75	335.70
Clay, red and white, sandy, clayey sand	3	338.70
Sandstone, fine argillaceous	5.58	344.28

Well YD-58-34-401

Owner: J. D. Hill
Driller: S. W. Glass Drilling
(Log from Texas Board of Water Engineers Bulletin 5708)

Surface	3	3
Lime, white	47	50
Lime, blue	55	105
Lime, brown	20	125
Sand, water-bearing	2	127
Lime, blue	111	238
Lime, white	40	278
Sand, water-bearing	4	282
Lime, blue	81	363
Lime, brown	60	423
Sand, water-bearing	6	429
Lime, white	98	527
Lime, blue	13	540
Shale, blue	70	610
Lime, white	25	635
Sand, water-bearing	18	653
Red beds	43	696
Sand, brown	28	724
Red beds	12	736
Sand, brown	27	763
Red beds	44	807
Sand, white	8	815
Red beds	6	821

Well YD-58-34-603

Owner: Balcones Country Club
Driller: Sterzing Drilling Co.

Topsoil	3	3
Gray lime	67	70
Water	5	75
Gray lime	200	275
Water	5	280
White lime	165	445
Water	5	450
Gray lime	225	675
Water	10	685
White lime	105	790
Blue clay	5	795
Gray lime	20	815
Water	60	880
Travis Peak	100	980
Hard cap	10	990
Blue, sandy shale	10	1,000
Trinity sand	118	1,118

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

Well YD-58-34-603—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Gray, sandy lime	27	1,145
Red shale	20	1,165
Streaks of red shale and sandy lime	10	1,175
Gray, sandy lime	37	1,212
Green shale	3	1,215
Lime	1	1,216
Green shale	9	1,225
Gray, sandy lime	20	1,245
Hard, black shale and lime	8	1,253

Well YD-58-34-703

Owner: Earl Blackmore
Driller: Sterzing Drilling Co.

Surface	5	5
Ledge stone	7	12
Flint rock	6	18
Ledge stone	7	25
Gray lime and shale	100	125
Blue lime	27	152
Brown lime	13	165
Blue lime	200	365
Gray lime (water)	10	375
Glen Rose with shale	230	605
Glen Rose (water)	25	630
Glen Rose and blue shale	20	650

Well YD-58-34-801

Owner: W. L. Richards
Driller: A. J. Bartuge
(Partial log from Texas Board of Water Engineers Bulletin 5708)

Limestone	210	210
Sand, lime, water-bearing	6	216
Limestone	254	470
Sand, lime, water-bearing	8	478
No record	12	490
Sand, lime, water-bearing	8	498
Limestone	92	590
Sand, lime, water-bearing	7	597
No record	15	612
Sand, lime, water-bearing	6	618

Well YD-58-34-801—Continued

	THICKNESS (FEET)	DEPTH (FEET)
No record	22	640
Sand, lime, water-bearing	5	645
No record	45	690
Shale, blue, and gumbo	30	720
Gumbo, blue	70	790
Sand, quartz	10	800
No record	20	820
Clay, red, and rock	5	825
No record	25	850
Sand, red, and clay	5	855
No record, water at 880 ft	35	890
Limestone, gray	5	895
No record, water at 915 ft and 930 ft	45	940
Clay, red	—	940

Well YD-58-35-408

Owner: Austin White Lime Co.
Driller: Virdell Brothers Drilling Co.

Fault, honey-comb	65	65
White limestone	15	80
Blue limestone	5	85
White limestone (some water)	30	115
Gray limestone	5	120
White limestone	15	135
Gray limestone	20	155
White limestone	10	165
Gray limestone	30	195
White limestone	17	212
Water rock (10 gpm)	8	220
White limestone	30	250
Gumbo rock, shale	20	270
Gray limestone	5	275
White limestone	45	320
Water rock	30	350
White limestone	20	370

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

Well YD-58-35-709

Owner: The University of Texas
Driller: Texas Water Supply Co.
(Log from Texas Board of Water Engineers Bulletin 5708)

	THICKNESS (FEET)	DEPTH (FEET)
Limestone	100	100
Clay, blue and black, and some lignite	20	120
Clay, blue, hard blue and black shale, and some gray limestone	10	130
Shale, blue	10	140
Shale, blue and black	10	150
Shale and limestone	10	160
Shale, blue and black	10	170
Shale, dark bluish-gray, soft	30	200
Limestone, light gray, chalky, subcrystalline	10	210
Limestone, light gray, hard with some marl	60	270
Shale, blue and grayish-white limestone	20	290
Shale, black, soft and chalky limestone	10	300
Limestone, light gray, soft, chalky	10	310
Limestone, gray, hard	20	330
Limestone, dark brownish-gray with chert	30	360
Limestone, dark gray, porous	30	390
No record	1,210	1,600
Sand and silt, greenish-gray	14	1,614
Shale, dark gray to fine	26	1,640
Sand, greenish-gray	20	1,660
Sand and sandy marl	20	1,680
No record	20	1,700
Sand, marl, and silt, reddish-brown	15	1,715
Clay and marl, pink, with green streaks	20	1,735
No record	40	1,775
Clay, sandy, and sand	25	1,800
Sand, light greenish-gray	15	1,815
Sand, pinkish-white	14	1,829
Sand, light gray	2	1,831
Shale, sticky, hard	2	1,833

Well YD-58-41-301

Owner: George Fulford
Driller: W. H. Glass and Son

	THICKNESS (FEET)	DEPTH (FEET)
Yellow shale	8	8
Yellow lime	18	26
Gray lime	126	152
Blue lime	28	180
Water sand	10	190
Gray lime	138	328
Gray shale	66	394
Gray lime	59	453
Travis Peak shale and red clay	23	476
Trinity sand	8	484
Red clay	5	489

Well YD-58-42-103

Owner: Devereux School
Driller: A. C. Clements
(Log from Texas Board of Water Engineers Bulletin 5708)

	THICKNESS (FEET)	DEPTH (FEET)
Clay, yellow, and limestone, tan	20	20
Limestone, gray and buff	20	40
Marl, much pyrite	20	60
Limestone, gray and tan	40	100
Marl, gray, many shells	12	112
Limestone, gray and tan	13	125
Marl, gray	11	136
Limestone, tan	24	160
Marl, many shells	40	200
Marly limestone, cream colored	22	222
Limestone, hard	40	262
Limestone, cream colored, dense	23	285
Limestone, tan	19	304
Limestone, dense, small amount of sand	16	320
Shale, gray,,soft	54	374
No record	46	420
Limestone, white with coarse sand inclusions	20	440
Sand	26	466

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-42-202		
Owner: Marion Fowler Driller: S. W. Glass Drilling (Description of samples by R. L. Bluntzer)		
Soil and white to creamy caliche	12	12
Light to dark gray, finely crystalline to silty, hard to soft, carboniferous, fossiliferous, limestone (80%); white to buff finely crystalline limestone (20%); some anhydrite	53	65
Finely crystalline, sandy to silty, fossiliferous (shell fragments), carboniferous, limestone (90%); light to dark gray limestone above (5%); and white anhydrite (5%)	38	103
Light gray, slightly carboniferous, gummy shale (falls apart when moistened) (100%)	3	106
Light to dark gray, silty to sandy, calcareous, slightly carboniferous shale (95%); and silty to sandy, carboniferous limestone (5%)	43	149
Same shale as above (100%)	53	202
Finely crystalline, silty to sandy, carboniferous, fossiliferous, pyritic limestone (70%); same shale as above (20%); and light gray finely crystalline limestone (10%); Fossils-*Corbula* (pelecypods) and gastropods	28	230
Same limestone as above (60%); white anhydrite (40%)	72	302
White to gray anhydrite (75%); clear crystals of gypsum (20%); same limestone as above (5%)	21	323
Light gray to white anhydrite (70%); clear crystals of gypsum (10%); tanish gray, finely crystalline limestone (15%); and light gray, gummy, shale (5%)	10	333
Anhydrite (50%); gypsum (25%); limestone (25%) as described above	27	360
Light to dark gray, finely crystalline, silty to sandy, slightly carboniferous limestone (90%); white to light gray anhydrite and gypsum (10%)	27	387
Same limestone (60%) and anhydrite and gypsum (10%) as above	63	450
Same limestone (70%); anhydrite and gypsum (15%) as above; light to dark gray, slightly fissil to gummy shale (15%)	61	511
Dark gray, silty, calcareous shale (100%)	49	560
Dark gray, silty to slightly sandy shale (90%); light gray to buff, finely crystalline, silty limestone (10%); some anhydrite and gypsum	39	599
Dark gray, silty to medium, slightly coarse, calcareous, shaly, sandstone (90%); limestone above (10%)	12	611
Fine to coarse, mostly medium, well sorted, angular to subrounded (subrounded-frosted and angular-clear), slightly arkosic, quartz sand (feldspar grains make up less than 5% of sample)	34	645
Fine to very coarse, mostly medium, poorly sorted, angular to well-rounded (angular-clear and well rounded-frosted), arkosic, quartz sand (feldspar and other grains make up 30% of the sample)	6	651
YD-58-42-203		
Owner: Dewitt Langford Driller: Texas Water Wells (Log from Texas Board of Water Engineers Bulletin 5708)		
Lime rock, hard	22	22
Limestone, gray	219	241
Sand and hard layers	62	303
Lime, small streaks of sand	52	355
Limestone, hard, and sand layers	131	486
Shale, sandy, layers of sand and rock	47	533
Sand, shale streaks, lime rock, sandy shale	75	608
Shale, sandy	37	645
Sand, shale, and limestone layers	125	770
Limestone, shale and sand streaks	90	860
Sand and limestone	48	908
Limestone and chert	12	920
Chert and black shale which is very hard in spots and turns gray when dry	207	1,127

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

YD-58-42-302

Owner: M. E. Hart
Driller: J. R. -Bob- Johnson Drilling and Supply
(Log from Texas Board of Water Engineers Bulletin 5708)

	THICKNESS (FEET)	DEPTH (FEET)
No record	550	550
Limestone	34	584
Sandstone, gray, broken, much water	61	645
Limestone, gray, sandy	4	649
Limestone	25	674
Limestone, very hard	8	682
Limestone	37	719
Limestone, lost circulation from 750 to 760 ft	87	806
Limestone, some loss of circulation	95	901
Limestone, hard streaks from 942 to 958 ft	77	978
Limestone	56	1,034
Limestone, very broken	23	1,057
Limestone, hard, broken	38	1,095
Limestone	28	1,123
Limestone, very hard	7	1,130
Limestone, soft	8	1,138

YD-58-42-401

Owner: Clifton S. Winstead
Driller: S. W. Glass Drilling
(Log from Texas Board of Water Engineers Bulletin 5708)

	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	10	10
Limestone, hard, white	40	50
Limestone, pale tan, compact, fairly hard, sugary	90	140
Limestone, white, soft	40	180
Marl, soft	10	190
Limestone, white, many shells	20	210
Limestone, soft, nodular, marly	100	310
Limestone, pale tan, sugary	30	340
Limestone, white	10	350
Limestone, hard, white, nodular	20	370
Limestone, hard, white	150	520
No record	35	555
Limestone, hard	10	565
Limestone, hard, grayish-tan, sugary	15	580

YD-58-42-401—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Limestone, grayish-tan, crumbly	10	590
Clay, gray, massive	30	620
Limestone, hard, sugary	70	690

Well YD-58-42-502

Owner: St. Stephens Episcopal School
Driller: Layne Texas Co.
(Complete log not shown; all descriptions are from cuttings unless indicated otherwise.
Description of samples by Helen Jeanne Plummer.)

Glen Rose limestone

	THICKNESS (FEET)	DEPTH (FEET)
Buff (oxidized) and gray limestone fragments. The weathered fragments show the abundance of included fossils in bold relief. The gray limestone comprises a white matrix in which are set numerous rotund dark bodies, which are so characteristic of the Glen Rose. "Whether the Comanche Peak and Walnut limestones can be so characterized has not been ascertained."	30	30
Hard, white limestone and many loose rotund dark bodies, as well as many rotund white bodies, many of which are in reality miliolids, others may be oolites.	20	50
No record.	3	53
Some hard limestone fragments with dark rotund inclusions; abundance of loose free dark bodies and similar white bodies that vary from subspherical through ellipsoidal to lenticular. Many of these light-colored bodies are miliolids.	22	75
White, dense, hard limestone with many dark inclusions and some miliolids. Abundance of loose dark and white rotund bodies representing many miliolids.	23	98
Very porous, pale tan, saccharoidal, dolomitic limestone, some dense dolomitic limestone, little white limestone carrying dark inclusions.	22	120
No record.	1	121
Same as above.	22	143
White limestone and "lime sand" or "miliolid sand." Dark inclusions common both in the hard limestone fragments as free bodies knocked free by the action of the bit.	21	164

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-42-502—Continued		
Same as above.	23	187
Tan, finely saccharoidal, dolomitic limestone, together with a richly miliolid hard dense, white limestone as well as a white limestone carrying numerous dark inclusions.	22	209
Similar to above.	20	229
Sample about 3/4 cream-colored, dense, to somewhat porous, very finely saccharoidal and dolomitic limestone rich in miliolids. Remainder a dense, gray limestone comprising a white matrix enclosing dark-gray rotund bodies, or psuedo-oolites, as they are called by some.	21	250
About 80% fine, gray limestone fragments and the free white and dark rotund bodies of the original rock consisting of these bodies in a cream-colored matrix. Remainder of sample a dense to somewhat porous, finely saccharoidal and miliolid limestone.	23	273
Entire sample composed of gray limestone fragments (many dark rotund bodies in a cream-colored matrix) and abundance of dark and cream-colored rounded bodies knocked from the matrix by the action of the drill. *Orbitolina* rare, few casts of gastropods, trace of echnoid spines, trace oyster shells.	22	295
Dense, gray, very finely saccharoidal limestone. In the larger fragments distinct dark bodies are not commonly present, but the finer portion consists of very fine fragments of the matrix from which the dark and light rotund bodies have been freed. *Orbitolina* rare.	23	318
Sample composed of beat-up gray limestone that was originally a light cream-colored to tan matrix enclosing an abundance of dark and light rotund bodies, of which the finer portion of the sample consists. Few shells, *Orbitolina* rare.	20	338
Same.	15	353
Brilliant white limestone with crystals of accicular clear calcite that may represent veins or small geodal cavities. Considerable crystalline calcite.	20	373
Well YD-58-42-502—Continued		
Sample consists about half of the same white limestone and calcite as above, but also many free, dark, rounded bodies popped out of a cream-colored matrix by the drill.	20	393
Same.	48	431
No record.	2	433
About 1/4 of the sample is a yellowish-cream dense limestone, many fragments being a coquina, others with a generous scattering of miliolids, still others rich in calcite. Most of the material consists of dark and cream-colored rotund bodies beaten out of the original matrix by the drill.	20	453
No record.	10	463
Much very pale cream to almost white small fragments of calcitic limestone; many free, dark, rotund bodies and clear calcite.	10	473
Similar to above. Rare *Orbitolinae*.	25	498
Largely minute fragments of cream-colored limestone, some quite porous and very finely saccharoidal; much calcite; scattering of free light to dark rotund bodies.	16	514
Much almost white, dense limestone fragments, some distinctly saccharoidal, others of a smooth texture. Few porous fragments. Calcite abundant. Generous scattering of free dark, rotund bodies.	29	543
Same.	24	567
Cream-colored limestone fragments and numerous free gray to cream-colored rotund bodies that represent an original limestone matrix enclosing these distinct bodies. Little tan saccharoidal limestone.	22	589
Same.	23	612
Same.	21	633
No record.	22	655
Same as above, but with a little yellowish, dense, coquinoid limestone. About 9/10 of the sample comprises very small fragments of gray limestone (dark bodies in a cream-colored matrix), and an abundance of free, gray and cream-colored bodies. Shell fragments frequent.		

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-42-502—Continued		
Orbitolina rare. Considerable calcite.	22	677
Sample largely as above, but with a new feature - some quartz sand. Wholly clear quartz sand rather coarse.	23	700
Core:		
Hard, almost white, calcareous sandstone of fine texture.	1	701
Core:		
Very tight, hard, mottled pink and tan calcareous siltstone with scattered larger quartz grains.	2	703
Core:		
Mottled pink, gray, and greenish-gray, calcareous sandstone or very sandy limestone composed of very poorly sorted quartz grains in a limestone matrix.	3	709
Abundance of sand grains and some very sandy limestone.	11	720
Finely broken-up limestone, such as was out above 700 ft.	20	740
Core:		
Hard, brown, porous siltstone.	10	750
No Record.	3	753
Largely coarse sand; small limestone fragments and dark bodies, probably from above.	10	763
Very small limestone fragments and dark bodies; considerable fairly coarse sand.	23	786
Very largely poorly sorted sand, little calcareous material as above.	23	809
Core:		
Reddish-brown, argillaceous and calcareous silt or silty clay, carrying many scattered sand grains.	6	815
Loose, poorly sorted sand up to coarse rounded grains. Some limestone fragments; one test of *Orbitolina texana*, possibly from a higher level.	20	835
Similar to above	20	855
No Record.	8	863
Largely loose, coarse sand with some calcareous matter in small fragments and dark bodies.	15	878
No Record.	27	905
Sand; much calcareous matter as limestone, sandy or silty limestone, and little greenish-gray shale and silty shale	24	929
Similar to above, but somewhat larger proportion of sand.	16	945
No Record.	24	969
Largely sand, very little reddish silty shale.	21	990
Paleozoic		
Besides the loose sand, limestone fragments, frequent chips of brown chert, black carbonaceous matter, and fossils are a coarse-textured hard, gray sandstone and some schistose shale that are undoubtedly Paleozoic.	14	1,004
Well YD-58-42-503		
Owner: Fred Morris Driller: Charles Calhoun (Log from Texas Board of Water Engineers Bulletin 5708)		
Edwards Limestone, water at 198 ft	198	198
No record	142	340
Limestone, bluish-gray, soft, water at 340 ft	10	350
No record	40	390
Limestone, white	30	420
No record	130	550
Sand	20	570
No record	15	585
Clay	50	635
Limestone, sandy	82	717
Sandstone, fine	53	770
Sand, water-bearing	20	790
Limestone, blue	25	815
Limestone, white	42	857
Sand, blue, soft	57	914
Sand, gray, water-bearing	26	940

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-42-503—Continued		
Sand, coarse, getting finer and harder with depth	37	977
Red beds	10	987
Well YD-58-42-701		
Owner: Marshall and Troupe Driller: Shell Oil Co. (Log from Texas Board of Water Engineers Bulletin 5708)		
Lime, white	5	5
Clay, yellow	7	12
Lime, white	21	33
Gumbo	4	37
Lime, broken	28	65
Gumbo	15	80
Lime, sandy, broken	15	95
Shale, gray	50	145
Lime, sand	15	160
Sand, white, water-bearing	10	170
Shale, sandy	20	190
Lime, sand, broken	20	210
Lime, hard, gray	15	225
Sand, lime shells	10	235
Shale	30	265
Sea shells	10	275
Shale	15	290
Lime hard	5	295
Shale, sandy	5	300
Sand, dry	15	315
Shale, sandy	5	320
Gravel	12	332
Sand, white, water-bearing	28	360
Lime, sandy, broken	5	365
Shale	20	385
Sand, fine-grained, white	40	425
Sand and shells	5	430
Shale, gray	15	445
Lime shells	2	447
Lime, hard, white (water)	3	450
Shale, sandy	15	465
Shale	25	490
Well YD-58-42-701—Continued		
Sand	20	510
Lime shells	10	520
Shale, blue	30	550
Lime, hard, white	3	553
Shale	7	560
Shale, sandy	15	575
Gumbo	15	590
Sand, gray	12	602
Lime, hard	4	606
Shale	14	620
Sand, hole full of water	20	640
Shale, blue	30	670
Sand, red beds (water at 700 ft, hole full of water)	150	820
Lime	2	822
Sand, coarse-grained (water at 900 ft)	113	935
Clay, yellow	35	970
Sand	10	980
Shale, black, little flakes of white at 1,070 ft	90	1,070
Shale, black, no water	765	1,835
Well YD-58-42-803		
Owner: R. D. Johnson Driller: Farrer Well Drilling Co. (Log from Texas Board of Water Engineers Bulletin 5708)		
Fault	230	230
Lime, gray	40	270
Lime, white	25	295
Lime, gray	23	318
Sand and lime, water-bearing (3 gpm)	67	385
Lime, gray	39	424
Lime, white	23	447
Lime, gray	18	465
Lime, white	81	546
Lime, light-brown	20	566
Lime, white	11	577
Lime, gray	27	604
Shell	8	612

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-42-803—Continued		
Lime, white	13	625
Lime, gray	96	721
Lime, blue	5	726
Lime, gray	54	780
Lime, white and sand	35	815
Lime, white	30	845
Lime, hard, white	17	862
Sand	45	907
Corrected depth	—	897

Well YD-58-43-401

Owner: State of Texas
Driller: H. McGillvray
(Log from Texas Board of Water Engineers Bulletin 5708)

Shale, dark	80	80
Limestone, very hard (Buda Limestone)	25	105
Marl, blue (Grayson Shale) (Del Rio Clay)	90	195
Limestone and alternations of limestone, marl, and sand	1,105	1,300
Sand, water-bearing	15	1,315
Limestone	60	1,375
Shale, rotten	50	1,425
Limestone	60	1,485
Sand, water-bearing	315	1,800
Shale or marl, blue; no limestone	175	1,975

Well YD-58-43-704

Owner: F. B. Perry
Driller: H. McGillvray
(Log from Texas Board of Water Engineers Bulletin 5708)

Surface dirt	20	20
Gravel bed (water)	5	25
Limestone	100	125
Shale	70	195
Limestone	25	220
Marl, blue	40	260
Limestone	100	360
Sand rock	10	370
Limestone	70	440
Sand rock and limestone (sulfur water)	150	590
Limestone	600	1,190
Sand rock (water)	25	1,215
Limestone	300	1,515
Shale, blue	60	1,575
Limestone	100	1,675
Sand rock, main flow	200	1,875
Shale, blue	40	1,915
Sand rock	50	1,965
Shale	60	2,025

Well YD-58-44-202

Owner: City of Manor
Driller: Eppright and H. McGillvray
(Log from Texas Board of Water Engineers Bulletin 5708)

Black soil (Navarro Group)	6	6
Yellow clay (Navarro Group)	11	17
Flint rock and gravel (Navarro Group)	3	20
Yellow and joint clay (Navarro Group)	30	50
Blue clay; at 400 ft blue clay gets lighter color; from 435 to 480 ft very dark and caves from (Talor Marl)	540	590
Rock; at about 800 ft deep soft strata in rock (Austin Chalk)	410	1,000
Shale; caves badly (Eagle Ford Shale)	25	1,025
Hard rock (Buda Limestone)	50	1,075
Blue clay (Grayson shale) (Del Rio Clay)	60	1,135
Lime rock; water at 1,250 ft - no good (Georgetown Limestone)	115	1,250
Rock; at 1,300 ft pyrite boulder (Edwards Limestone)	50	1,300
Rock; hard and soft in places (Edwards Limestone)	70	1,370
Sandy and soft rock (Edwards Limestone)	8	1,378
Limestone (Edwards Limestone)	42	1,420
Solid limestone	480	1,900
Blue marl	10	1,910
Solid limestone	440	2,350
Not given	210	2,560

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

Well YD-58-51-102

Owner: City of Austin
Driller: Layne Texas Co.
(Log from Texas Board of Water Engineers Bulletin 5708)

	THICKNESS (FEET)	DEPTH (FEET)
Soil	6	6
Lime rock	189	195
Sand and shale	15	210
Lime rock	30	240
Shale, black	35	275
Lime rock, blue	35	310
Mud, blue	35	345
Shale, black	39	384
Rock	399	783
Rock, flint	16	799
Rock, hard	29	828
Rock	142	970
Rock, hard	47	1,017
Rock	104	1,121
Lime, soft	34	1,155
Rock and black shale	22	1,177
Rock	62	1,239
Rock, hard	21	1,260
Rock	374	1,634
Limestone and conglomerate	40	1,674
Sand rock	17	1,691
Sand	18	1,709
Sand rock	15	1,724
Sand	121	1,845
Shale	5	1,850
Sand	43	1,893
Shale	14	1,907
Sand, sharp	18	1,925
Sand, fine	12	1,937
Sand, hard	7	1,944
Shale	23	1,967
Sand rock and lime	33	2,000
Shale	28	2,028
Shale, sticky	7	2,035
Rock, hard	8	2,043
Shale and lime	28	2,071

Well YD-58-51-102—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Lime rock	13	2,084
Rock	12	2,096
Shale	18	2,114
Rock	12	2,126
Sand rock, fine, lime and cement	25	2,151
Rock, hard	9	2,160
Sand and rock	11	2,171
Rock	7	2,178
Sand	3	2,181
Rock, porous	8	2,189
Sand and rock	24	2,213
Shale	20	2,233
Rock and shale	13	2,246

Well YD-58-51-901

Owner: Clause Philquist
Driller: Allen and Stolley
(Log from Texas Board of Water Engineers Bulletin 5708)

	THICKNESS (FEET)	DEPTH (FEET)
Clay	35	35
Sand rock	3	38
Shale, sticky	362	400
Shale, sandy	18	418
Shale, sticky	32	450
Shale, sandy	15	465
Shale, sticky	38	503
Shale, sandy	25	528
Shale, hard	127	655
Shale, sticky	10	665
Shale, hard	15	680
Shale, sticky	60	740
Shale and gravel	7	747
Shale, sticky	25	772
Shale, sandy	23	795
Shale, hard	45	840
Shale, sticky	54	894
Shale	66	960
Shale, sticky	16	976
Chalk and shale	4	980
Chalk	103	1,083

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-51-901—Continued		
Shale, chalky	34	1,117
Chalk, broken	143	1,260
Shale, chalky	11	1,271
Chalk	10	1,281
Shale, sticky	15	1,296
Lime	91	1,387
Shale, sticky	14	1,401
Lime	47	1,448
Shale, sticky	2	1,450
Lime	60	1,510
Edwards Limestone	529	2,039
Lime, sandy (cavities)	133	2,172
Lime, sandy	49	2,221
Lime	42	2,263
Lime, hard	32	2,295
Lime	10	2,305
Shale, hard, sandy	7	2,312
Lime (cored)	11	2,323
Lime, sandy (streaks of shale)	49	2,372
Lime	13	2,385
Lime, sandy (streaks of shale)	17	2,402
Lime, sandy	11	2,413
Lime, sandy (streaks of shale)	52	2,465
Lime, sandy	25	2,490
Sand, hard	11	2,501
Lime, sandy	15	2,516
Lime, broken, and shells	12	2,528
Lime and shells (cored)	2	2,530
Lime, porous, and shells	45	2,575
Lime and shells	40	2,615
Lime	137	2,752
Lime, sandy	135	2,887
Shale, sandy, blue	2	2,889
Shale, sandy, hard, and lime	19	2,908
Lime, hard, sandy (streaks of shale)	11	2,919
Lime, hard, sandy	6	2,925
Lime, hard, sandy, and shale	9	2,934
Lime, hard, sandy	9	2,943
Lime and shells	22	2,965
Shale, sandy with streaks of lime	20	2,985
Lime and shale	6	2,991
Sand and shale (cored)	17	3,008

TRAVIS COUNTY

Table 4.--Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

Well YD-57-32-601

Owner: T. H. Varner

DATE	WATER LEVEL
July 1950	65
Apr. 20, 1967	43.87
May 16, 1968	15.1

Well YD-57-32-801

Owner: Mrs. H. P. Hensel

DATE	WATER LEVEL
1949	40
May 8, 1967	36.35
May 15, 1968	34.03

Well YD-57-32-802

Owner: Mrs. H. P. Hensel

DATE	WATER LEVEL
June 2, 1966	23.35
Apr. 19, 1967	24.17
May 16, 1968	23.1

Well YD-57-32-803

Owner: R. H. Henry

DATE	WATER LEVEL
July 13, 1950	74.32
May 2, 1967	74.91
May 16, 1968	73.45

Well YD-57-40-201

Owner: J. D. Singleton

DATE	WATER LEVEL
1949	101
Apr. 19, 1967	91.7
May 16, 1968	89.34

Well YD-57-40-303

Owner: Emmett Bone

DATE	WATER LEVEL
July 28, 1962	60
May 16, 1968	16.20

Well YD-57-40-304

Owner: Girl Scouts of America

DATE	WATER LEVEL
Mar. 4, 1966	45
May 17, 1968	39.22

Well YD-57-40-801

Owner: Tom Tiner

DATE	WATER LEVEL
Sept. 1967	180
May 17, 1968	126.12

Well YD-58-25-401

Owner: G. H. Rogers

DATE	WATER LEVEL
Aug. 1944	60
May 16, 1968	3.99

Well YD-58-25-801

Owner: George Agnew

DATE	WATER LEVEL
May 31, 1966	99.88
Apr. 11, 1967	110.1
May 16, 1968	102.7

Well YD-58-25-901

Owner: Barnes - Jones Lumber Co.

DATE	WATER LEVEL
May 30, 1966	181.43
June 15, 1966	191.7
Nov. 9, 1966	188.04
May 14, 1968	194.3

Well YD-58-26-403

Owner: Leander Limestone Corp.

DATE	WATER LEVEL
Apr. 18, 1967	318.9
May 14, 1968	323.4

Well YD-58-26-404

Owner: Leander Limestone Corp.

DATE	WATER LEVEL
Mar. 21, 1966	334.5
Aug. 30, 1966	337.9
Apr. 18, 1967	327.0
May 14, 1968	324.9

Well YD-58-33-101

Owner: J. Syd Wheless

DATE	WATER LEVEL
June 2, 1966	237.3
Apr. 18, 1967	246.4
May 16, 1968	233.2

Well YD-58-33-202

Owner: Barnes - Jones Lumber Co.

DATE	WATER LEVEL
June 15, 1966	188.7
Apr. 11, 1967	203.9
May 16, 1968	194.2

Well YD-58-33-305

Owner: Walter C. Schwarzer

DATE	WATER LEVEL
1966	125
Nov. 4, 1966	131.57
Apr. 11, 1967	149.85
May 14, 1968	118.59

Well YD-58-33-403

Owner: J. H. Shepler

DATE	WATER LEVEL
Oct. 1965	90
Apr. 11, 1967	136.42
Apr. 13, 1967	136.68
May 8, 1967	138.0
May 15, 1968	130.37

Table 4.—Water Levels in Selected Wells in Travis County—Continued

DATE	WATER LEVEL
Well YD-58-33-501	
Owner: John G. Johnson	
Nov. 3, 1966	167.8
Apr. 12, 1967	162.6
Well YD-58-33-611	
Owner: Charles Dwyer	
Dec. 5, 1966	250.3
Apr. 5, 1967	252.0
May 24, 1967	251.9
May 14, 1968	231.1
Well YD-58-33-615	
Owner: Lula Lung Powell	
Jan. 29, 1968	33.1
May 14, 1968	91.63
Well YD-58-33-801	
Owner: F. W. Sternenberg	
Nov. 1939	85
Nov. 22, 1966	212.64
May 9, 1967	213.08
Apr. 26, 1968	206.26
Well YD-58-33-901	
Owner: Dudley Cotton	
May 27, 1966	117.83
May 26, 1967	126.57
May 14, 1968	101.98
Well YD-58-34-603	
Owner: Balcones Country Club	
Nov. 1960	65
May 16, 1968	71.4
Well YD-58-34-604	
Owner: Balcones Country Club	
Feb. 16, 1967	94.3
Apr. 12, 1967	89.8
May 16, 1968	45.8
Well YD-58-34-801	
Owner: W. L. Richards	
Feb. 27, 1950	126
May 24, 1966	151.19
Apr. 14, 1967	152.94
May 15, 1968	153.0
Well YD-58-41-301	
Owner: George Fulford	
May 13, 1968	72.18
Well YD-58-42-202	
Owner: Marion Fowler	
May 25, 1966	134.34
Apr. 12, 1967	157.13
May 14, 1968	149.73
Well YD-58-42-302	
Owner: M. E. Hart	
Mar. 1950	150
Jan. 1956	300
Mar. 24, 1966	292.37
Apr. 10, 1967	290.69
May 14, 1968	288.18
Well YD-58-42-303	
Owner: David B. Barrow	
Apr. 10, 1967	225.1
May 14, 1968	207.82
Well YD-58-42-402	
Owner: Clifton S. Winstead	
Oct. 12, 1962	240
May 19, 1966	266.0
May 19, 1967	273.67
Well YD-58-42-501	
Owner: West Lake Water Supply Corp.	
Apr. 14, 1954	392
Apr. 1954	339
May 18, 1966	417.6
Well YD-58-42-501—Continued	
May 9, 1967	420.93
May 13, 1968	419.53
Well YD-58-42-503	
Owner: Fred Morris	
Apr. 5, 1955	145
Apr. 13, 1955	116
Apr. 15, 1955	101
May 2, 1955	101
May 18, 1966	126.03
May 9, 1967	132.17
May 13, 1968	127.78
Well YD-58-42-504	
Owner: West Lake Water Supply Corp.	
July 16, 1954	206
May 13, 1955	177
May 17, 1955	180
May 5, 1967	194.55
May 13, 1968	185.48
Well YD-58-42-701	
Owner: Marshall and Troupe	
Mar. 1939	200
Feb. 14, 1941	202.26
May 18, 1966	235.3
May 19, 1967	242.06
Well YD-58-42-802	
Owner: Country Day School	
June 4, 1949	149
July 2, 1950	137
Nov. 19, 1954	146
May 19, 1966	169.72
May 9, 1967	178.23
May 13, 1968	172.59

Table 4.—Water Levels in Selected Wells in Travis County—Continued

DATE	WATER LEVEL
Well YD-58-43-702	
Owner: State of Texas	
May 17, 1966	+ 30.0
Apr. 24, 1968	+ 35.0
Well YD-58-43-703	
Owner: Driskell Hotel	
1941	+ 66
Oct. 16, 1964	+ 59
May 17, 1966	+ 53.0
Apr. 24, 1968	+ 50.0
Well YD-58-51-102	
Owner: City of Austin	
Oct. 29, 1932	+ 66
1932	+ 74
Apr. 25, 1968	1.37
Well YD-58-51-103	
Owner: O. O. Norwood	
1929	+ 102
July 27, 1961	+ 75
May 18, 1966	+ 63.0
Apr. 24, 1968	+ 74.0

TRAVIS COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS REPORTED	DISSOLVED SOLIDS RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
YD-57-32-601	75	Apr. 20, 1967	Khe	16	1.6	67	39	37	--	355	89	24	0.9	< 0.4	--	450	--	329	20	756	7.5	0.9
1/ 801	125	July 1950	Ktp	15	--	80	44	* 8.1	--	386	31	20	--	30	--	425	--	380	4	736	7.6	.2
801	125	June 2, 1966	do.	13	< .02	82	46	13	--	381	32	29	.4	44	--	446	--	394	7	763	7.3	.3
802	28	do.	Khe	10	< .02	74	30	12	--	328	21	18	.2	20	--	346	--	309	8	600	7.4	.3
1/ 803	103	July 1950	do.	18	--	58	36	* 11	--	330	28	12	--	.0	--	325	--	292	8	566	8.3	.3
803	103	May 2, 1967	do.	3	2.04	59	34	11	--	325	24	17	.5	< .4	--	311	--	287	8	554	7.6	.3
901	75	June 2, 1966	do.	12	< .02	98	37	14	--	371	31	29	.2	64	--	467	--	398	7	800	7.5	.3
1/ 40-201	159	Feb. 1950	Kho	--	--	--	--	--	--	--	70	35	--	--	--	--	--	--	--	916	--	--
201	159	Apr. 19, 1967	do.	16	.3	77	59	40	--	429	109	44	.8	14	--	570	--	436	17	954	7.4	.8
202	129	do.	do.	16	.7	79	40	63	12	444	72	52	.7	4	0.4	560	--	362	27	930	7.5	1.4
301	425	May 26, 1967	do.	9	6	82	34	9	--	351	41	18	.5	< .4	--	373	--	345	5	632	7.7	.2
801	305	Oct. 16, 1967	Khe, Kho	24	--	86	33	7	--	403	9	17	.4	3	--	377	--	352	4	649	7.6	.2
48-902	728	Mar. 26, 1968	Kho	15	--	87	58	225	--	257	530	147	.8	< .4	--	1,190	--	458	52	1,750	7.6	4.6
1/ 58-25-401	375	July 1950	Kgr, Khe	12	--	73	61	* 40	--	402	147	26	--	1	--	580	558	433	17	921	7.9	.8
501	400	Apr. 20, 1967	Kgr, Ktp	17	.42	51	27	68	--	349	58	36	.9	< .4	--	430	--	242	38	718	7.5	1.9
801	497	May 31, 1966	Ktp	17	.44	45	38	68	--	354	74	38	1.5	< .4	--	456	--	270	36	780	7.8	1.8
802	600	Nov. 10, 1966	Kgr, Ktp	10	.50	18	11	471	--	406	53	540	3.8	< .4	--	1,330	1,308	88	92	2,350	8.0	21.6
901	643	do.	do.	11	.04	30	18	461	26	412	107	503	3.3	< .4	--	1,340	1,363	151	85	2,350	7.7	16.4
1/ 26-403	888	Mar. 25, 1949	do.	14	--	46	41	* 127	--	390	167	46	--	1.8	1.6	666	637	284	49	1,050	--	3.2
33-102	600	June 1, 1966	do.	16	< .02	79	52	45	--	327	211	20	1	< .4	--	590	--	412	19	905	7.7	1.0
103	926	Nov. 10, 1966	Ktp	13	.08	52	44	77	--	361	133	37	1.3	< .4	--	540	--	309	35	885	7.7	1.9
202	365	Nov. 9, 1966	Kgr, Ktp	12	.02	162	101	59	21	428	540	24	3.9	< .4	--	1,110	1,133	820	13	1,580	7.3	.9
203	600	Nov. 10, 1966	do.	7	.08	16	9	570	33	346	45	690	3.8	< .4	--	1,510	1,544	77	91	2,670	7.8	28.2
204	620	do.	do.	11	.04	53	39	135	--	356	216	53	2	< .4	--	680	--	292	50	1,089	7.7	3.4
205	600	do.	do.	14	.04	41	28	148	19.4	373	134	82	1.8	< .4	--	650	--	216	57	1,060	7.7	4.4

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
YD-58-33-206	356	Nov. 8, 1966	Kgr, Ktp	10	0.04	363	39	11	--	410	700	16	2	< 0.4	--	1,340	--	1,070	2	1,650	7.3	0.1
207	526	Nov. 9, 1966	do.	12	.04	96	60	104	23	371	341	49	2.2	< .4	--	870	--	486	30	1,300	7.4	2.1
301	545	May 30, 1966	Ktp	11	.08	26	14	540	26.5	433	69	660	3.8	< .4	--	1,560	--	122	88	2,750	7.9	21.2
302	665	June 1, 1966	Kgr, Ktp	11	.02	70	80	116	28	445	353	36	5.3	5	--	920	--	505	32	1,350	7.5	2.2
303	530	May 31, 1966	Ktp	16	.10	124	21	28	--	426	37	32	.2	17	--	484	--	396	12	805	7.2	.6
304	360	Nov. 4, 1966	do.	10	.14	415	228	115	--	381	1,800	32	4.8	< .4	--	2,790	--	1,970	11	3,050	7.1	1.1
2/ 401	422	Nov. 9, 1938	Kgr, Ktp	--	--	459	121	* 24	--	354	1,310	27	--	.2	--	2,190	2,115	1,640	3	--	--	.3
402	535	June 1, 1966	do.	10	.82	67	35	8	--	345	12	14	.6	< .4	--	318	--	309	5	585	7.3	.2
403	462	Apr. 11, 1967	Kho	9	1.3	22	17	580	26	296	214	660	3.2	< .4	4.5	1,680	--	128	89	2,910	8.1	22.5
403	462	Apr. 13, 1967	do.	10	.1	34	15	590	26	311	217	680	3.4	< .4	4.7	1,730	--	146	88	2,930	7.9	21.2
501	422	Nov. 8, 1966	Kgr, Ktp	12	.02	88	23	199	33	361	468	136	3.8	3	--	1,200	1,144	520	55	1,800	7.4	4.9
1/ 502	520	Sept. 5, 1951	Kho	14	--	28	19	* 535	--	352	268	518	4	4.5	--	1,560	--	148	89	2,710	8.3	19.1
502	520	Nov. 21, 1966	do.	13	3.0	102	26	15	--	381	31	38	.3	6	--	465	--	362	8	719	7.3	.3
601	422	Nov. 8, 1966	Kgr, Ktp	10	< .02	64	62	315	38	399	402	256	5.7	3	--	1,350	--	414	60	2,100	7.5	6.7
602	802	Nov. 4, 1966	do.	10	.02	90	59	20	--	410	126	27	2.1	< .4	--	540	--	467	8	889	7.5	.4
603	440	do.	do.	8	.14	268	118	139	--	372	1,030	53	5	< .4	--	1,800	--	1,160	21	2,260	7.3	1.8
604	390	do.	Kgr, Khe	6	.02	112	132	124	--	482	610	41	5.1	< .4	--	1,270	--	840	25	1,800	7.5	1.9
2/ 605	440	Nov. 18, 1940	Ktp	--	--	52	40	* 335	--	404	364	210	5.1	4	--	1,210	--	294	71	--	--	8.5
605	440	Nov. 4, 1966	do.	11	.02	81	98	191	38	459	520	85	5.5	< .4	--	1,260	--	610	39	1,840	7.5	3.4
609	417	Nov. 15, 1966	Kgr, Ktp	9	21.0	289	177	112	63	355	1,340	44	3.1	< .4	--	2,231	--	1,450	14	2,530	7.2	1.3
609	709	July 6, 1967	do.	14	--	164	64	1,980	--	354	110	8,270	1.7	< .4	--	5,780	--	670	87	9,110	7.5	33.3
610	215	Nov. 15, 1966	Kgr	6	43.5	284	237	150	58	272	1,680	66	3.5	< .4	--	2,664	--	1,690	16	2,930	7.1	1.6
612	201	Nov. 22, 1966	Kgr, Khe	9	.16	127	37	14	--	440	102	31	.5	< .4	--	540	--	470	6	880	7.2	.3
615	675	Jan. 29, 1968	Kho, P	8	--	414	124	63	--	201	1,380	43	2.7	2.5	--	2,140	--	1,540	8	2,380	7.0	.7
2/ 801	372	Nov. 29, 1939	Kgr	--	--	96	75	* 257	--	294	706	82	3.1	< 20	--	1,370	--	546	50	--	--	4.8
2/ 801	725	Dec. 29, 1939	Kgr, Ktp	--	--	18	9	* 340	--	334	267	191	--	< 20	--	988	--	83	90	--	--	16.3
1/ 801	725	Sept. 28, 1954	do.	12	--	20	13	* 368	--	318	318	222	2.8	4.8	3.5	1,120	--	104	89	1,860	7.9	15.7
801	725	Nov. 22, 1966	do.	7	.10	41	16	23	--	159	24	50	.2	< .4	--	239	--	169	23	450	7.6	.8
1/ 802	641	Feb. 9, 1953	Kho	--	--	--	--	--	--	321	28	--	--	--	--	--	--	1,890	--	2,820	7.3	--
1/ 803	620	Aug. 27, 1948	do.	--	--	--	--	--	--	292	364	75	--	.5	--	--	--	84	--	1,370	--	--
1/ 803	620	Nov. 3, 1949	do.	--	--	23	13	* 278	--	293	352	78	--	< 20	--	888	--	113	84	--	--	10.9
1/ 804	598	Dec. 6, 1949	Kgr, Ktp	9.2	--	71	86	* 160	--	452	397	67	--	.5	--	1,010	--	530	40	1,530	8.1	3.0
804	598	Nov. 22, 1966	do.	10	.14	79	83	213	26	440	530	94	4.1	1.5	--	1,260	--	540	45	1,820	7.4	4.0
805	720	May 13, 1968	Kho	10	--	23	12	247	--	283	323	66	3.7	< .4	--	820	--	109	83	1,310	8.3	10.4

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
YD-58-33-901	687	May 27, 1966	Kho	10	< 0.02	95	45	29	--	259	190	44	2.9	7	--	550	--	421	13	888	7.4	0.6
902	202	1937	Kgr	--	--	--	--	--	--	280	< 10	78	--	< 20	--	1,220	--	--	--	--	--	--
902	344	do.	Khe	--	--	66	56	--	--	--	274	1,280	3.2	< 20	--	2,830	--	--	--	--	--	--
902	445	do.	Kpe	--	--	--	--	--	--	--	--	43	--	< 20	--	1,820	--	--	--	--	--	--
902	510	do.	do.	--	--	107	94	--	--	--	490	1,570	3.5	< 20	--	3,440	--	655	--	--	--	--
2/ 902	551	June 18, 1937	Kho	--	--	50	31	* 370	--	345	560	134	--	< 20	--	1,320	--	250	76	--	--	10.1
2/ 902	675	June 22, 1937	do.	--	--	12	9	* 361	--	442	288	132	--	< 20	--	1,020	--	65	92	--	--	19.2
902	715	Aug. 30, 1938	do.	--	--	18	11	* 368	--	366	385	124	3.4	< 20	--	1,110	1,089	89	90	--	--	17.0
2/ 902	715	Mar. 21, 1941	do.	--	--	21	5	* 395	--	342	467	112	3.3	--	--	1,170	--	73	92	--	--	20.2
2/ 904	500	Nov. 19, 1940	Ktp	--	.6	32	20	* 567	--	308	429	455	3.1	3.2	--	1,640	--	162	88	--	--	18.7
3/ 34-401	696	Sept. 12, 1953	Kho	--	--	60	92	* 1,700	--	342	132	2,700	--	--	--	4,850	--	528	88	--	7.6	32.2
603	1,253	Feb. 16, 1967	do.	11	< .02	73	78	28	26	405	222	25	3.9	2.5	2.3	670	--	500	10	994	7.7	.5
703	650	Apr. 12, 1967	Kgr, Khe	9	.04	206	179	104	--	368	1,030	44	4.5	6	--	1,760	--	1,250	15	2,290	7.5	1.3
1/ 801	270	May 25, 1949	Kgr	11	--	181	64	* 13	--	359	85	254	--	2.8	.21	788	--	716	4	1,470	7.4	.2
1/ 801	320	Nov. 1949	do.	--	--	--	--	--	--	388	570	22	--	--	--	--	--	517	--	1,550	7.5	--
1/ 801	490	do.	Khe	--	--	--	--	--	--	217	3,280	212	--	--	--	--	--	820	--	5,470	7.1	--
1/ 801	520	do.	do.	--	--	--	--	--	--	134	1,810	77	--	--	--	--	--	820	--	3,110	7.0	--
1/ 801	598	do.	Kpe	--	--	--	--	--	--	223	2,040	450	--	--	--	4,050	--	--	--	4,830	8.1	--
1/ 801	612	do.	do.	--	--	--	--	--	--	214	1,520	64	--	--	--	--	--	--	--	2,710	--	--
1/ 801	640	do.	do.	--	--	--	--	--	--	207	1,560	335	--	--	--	--	--	--	--	3,680	7.4	--
1/ 801	760	do.	Kho	--	--	--	--	--	--	470	600	1,520	--	--	--	--	--	405	--	5,680	7.7	--
1/ 801	830	do.	do.	--	--	--	--	--	--	523	650	1,680	--	--	--	--	--	--	--	6,570	8.1	--
1/ 801	840	do.	do.	--	--	--	--	--	--	513	--	550	--	--	--	--	--	--	--	6,470	8.3	--
1/ 801	880	Nov. 1949	do.	--	--	--	--	--	--	516	540	1,500	--	--	--	--	--	--	--	6,040	8.0	--
1/ 801	914	do.	do.	--	--	--	--	--	--	507	520	1,350	--	--	--	--	--	--	--	5,760	8.4	--
1/ 801	930	--	do.	--	--	--	--	--	--	538	540	1,400	--	--	--	--	--	--	--	5,950	8.6	--
1/ 801	940	Dec. 18, 1950	do.	12	--	53	42	* 1,170	--	502	598	1,290	--	4.5	--	3,420	--	304	89	5,650	7.9	29.1
1/ 35-701	610	Nov. 4, 1942	Kea	14	.22	71	17	* 46	--	329	33	30	.6	.0	--	379	--	247	29	--	7.5	1.3
1/ 701	610	Sept. 19, 1949	do.	12	7.4	73	32	* 34	--	338	38	50	--	.0	--	413	--	314	19	735	7.5	.8
3/ 803	1,400	Oct. 14, 1940	do.	--	--	101	10	* 35	--	336	35	35	.5	--	--	386	--	291	21	--	--	.9
41-301	489	Aug. 21, 1967	Kho	12	--	27	12	217	--	234	332	39	1.8	< .4	--	760	--	118	80	1,125	8.2	8.7
701	628	Mar. 26, 1968	Kho	15	--	178	117	146	--	288	850	89	4.4	< .4	--	1,540	--	930	26	2,040	7.4	2.1
42-101	499	May 27, 1966	do.	12	.18	16	7	222	--	250	276	43	2.3	< .4	--	700	--	69	88	1,102	7.9	11.6
102	490	Nov. 18, 1966	do.	12	.10	14	7	224	--	257	264	47	1.9	1	--	700	--	65	88	1,105	7.8	12.2

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
YD-58-42-103	466	Nov. 18, 1966	Ktp	12	0.04	29	17	202	11	250	338	43	1.6	1.5	--	780	--	141	74	1,162	8.0	7.3
301	852	Dec. 1934	do.	--	--	47	35	--	--	--	666	1,450	--	--	--	3,670	--	--	--	--	--	--
2/ 301	852	Nov. 1940	do.	--	--	71	41	* 1,300	--	516	732	1,400	1.9	< 20	--	3,800	--	346	89	--	--	30.4
1/ 301	852	Dec. 1949	do.	13	--	52	46	* 1,300	--	467	724	1,410	--	13	--	2,790	3,788	318	90	6,070	8.2	31.6
302	1,135	Apr. 10, 1967	do.	13	1.1	28	17	870	36	570	530	750	3.4	< .4	6.2	2,530	--	139	91	3,960	7.7	32.1
1/ 401	500	July 1, 1950	Kgr	--	--	--	--	--	--	480	500	21	--	--	--	--	--	900	--	1,560	--	--
1/ 401	630	July 11, 1950	Kpe	--	--	--	--	--	--	344	1,700	30	--	--	--	--	--	2,000	--	3,040	7.6	--
1/ 401	675	July 18, 1950	do.	--	--	--	--	--	--	216	560	47	--	--	--	--	--	275	--	1,390	7.7	--
1/ 401	690	Nov. 7, 1950	do.	--	--	--	--	--	--	262	420	37	--	--	--	--	--	--	--	1,240	8.3	--
1/ 401	690	Nov. 11, 1950	do.	--	--	--	--	--	--	306	400	38	--	--	--	--	--	244	--	1,280	7.9	--
1/ 401	690	Nov. 13, 1950	do.	--	--	--	--	--	--	306	400	38	--	--	--	--	--	244	--	1,280	7.9	--
1/ 401	716	May 22, 1951	Ktp	10	--	31	26	* 204	--	241	361	38	--	.0	--	815	788	184	71	1,250	8.1	6.5
1/ 501	941	Aug. 18, 1954	do.	--	--	--	--	--	--	247	--	6	--	--	--	--	--	117	--	1,300	8.0	--
4/ 502	1,015	June 18, 1949	do.	19.2	.5	32.4	9.1	* 226.6	--	--	264	53	--	--	--	--	--	118	80	--	8.36	9.0
1/ 502	1,015	June 20, 1949	do.	--	--	--	--	--	--	277	300	50	--	--	--	759	--	73	--	1,190	7.3	--
1/ 502	1,015	Nov. 3, 1949	do.	13	.7	11	6.5	* 257	--	269	279	66	2.6	.0	2.9	772	--	54	91	1,220	8.2	15.3
1/ 503	200	Mar. 28, 1955	Kgr	--	--	--	--	--	--	317	--	12	--	--	--	--	--	310	--	571	7.5	--
1/ 503	780	Apr. 7, 1955	Kho	--	--	--	--	--	--	454	--	164	--	--	--	--	--	247	--	2,250	7.9	--
1/ 503	987	Apr. 15, 1955	do.	--	.18	--	--	--	--	637	--	367	--	--	--	--	--	96	--	2,840	8.1	--
1/ 504	703	July 19, 1954	do.	--	--	--	--	--	--	45	--	88	--	--	--	--	--	206	--	745	8.5	--
1/ 504	715	do.	do.	--	--	--	--	--	--	295	--	62	--	--	--	--	--	180	--	1,690	8.1	--
1/ 504	786	July 30, 1954	do.	--	.14	--	--	--	--	312	--	65	--	--	--	--	--	204	--	1,720	8.5	--
1/ 504	786	May 13, 1955	do.	4.4	--	25	77	* 65	--	312	220	26	--	.0	--	628	570	380	27	940	8.2	1.5
1/ 505	600	May 27, 1949	Kgr	11	--	282	214	* 61	--	394	1,300	29	--	.0	1	2,090	--	1,580	8	2,530	7.3	.7
1/ 505	600	do.	do.	10	--	258	214	* 65	--	400	1,240	33	--	.0	1.1	2,020	--	1,520	9	2,450	7.7	.7
1/ 505	906	Apr. 6, 1950	Ktp	--	--	--	--	--	--	--	--	43	--	--	--	--	--	220	--	1,320	--	--
1/ 505	940	Apr. 11, 1950	do.	12	--	22	19	* 249	--	245	393	44	--	1.8	--	881	861	133	80	1,290	7.6	9.4
1/ 505	961	Aug. 24, 1950	do.	--	--	--	--	--	--	337	900	42	--	--	--	--	--	915	--	1,960	7.1	--
1/ 506	556	Oct. 9, 1948	Kgr	--	--	--	--	--	--	480	366	17	--	--	--	--	--	860	--	1,290	--	--
1/ 506	660	Oct. 5, 1950	Khe	--	--	--	--	--	--	--	1,100	--	--	--	--	--	--	--	--	1,850	--	--
1/ 506	900	Nov. 14, 1950	Kho	--	--	--	--	--	--	206	400	52	--	--	--	--	--	--	--	1,380	8.3	--
1/ 506	938	Nov. 20, 1950	do.	--	--	--	--	--	--	--	500	66	--	--	--	--	--	--	--	1,640	--	--
507	950	Apr. 29, 1955	do.	--	--	30	12	* 313	--	244	491	67	1.2	--	--	--	--	125	85	--	--	12.2
1/ 507	1,045	May 14, 1955	do.	13	.09	28	14	* 338	--	247	482	92	1.1	.0	.07	1,090	--	128	85	1,680	7.8	13.0

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

	WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
1/	YD-58-42-508	500	Sept. 21, 1954	Kgr	--	--	--	--	--	--	409	--	14	--	--	--	--	--	566	--	1,040	7.5	--
2/	701	900	Feb. 14, 1941	Kho	--	--	98	23	* 46	--	226	102	53	--	90	--	523	--	339	23	--	--	1.1
	701	900	May 19, 1967	do.	11	--	67	53	167	--	257	477	42	1.8	< .4	--	950	--	383	49	1,400	7.7	3.7
1/	802	863	Apr. 1, 1947	do.	--	--	--	--	--	--	296	520	82	--	--	--	--	--	345	--	167		--
1/	802	922	June 15, 1949	do.	15	2.4	58	31	* 319	--	291	580	77	1	.0	3.5	1,230	--	290	72	1,830	7.4	8.4
1/	803	897	Mar. 11, 1955	Kgr, Ktp	20	--	65	67	* 241	--	274	626	59	--	3	--	1,280	1,216	438	54	1,830	7.8	5.0
1/	803	738	Nov. 1934	Ktp	--	--	--	--	--	--	187	--	51	--	--	--	--	--	164	--	1,300	9.0	--
1/	805	876	Dec. 1, 1954	do.	18	--	54	29	* 302	--	292	355	64	.9	.0	--	1,170	--	254	72	1,730	8.0	8.3
1/	43-102	440	Mar. 8, 1950	Kgr	--	--	--	--	--	--	480	170	16	--	--	--	--	--	516	--	938	7.8	--
1/	102	464	Mar. 20, 1950	Kgr	--	--	--	--	--	--	--	260	29	--	--	--	--	--	410	--	812	--	--
1/	102	562	do.	do.	--	--	--	--	--	--	--	2,900	352	--	--	--	--	--	--	--	6,400	--	--
1/	102	698	do.	do.	--	--	--	--	--	--	316	950	425	--	--	--	--	--	--	--	3,370	7.7	--
1/	102	698	do.	do.	--	--	--	--	--	--	--	850	420	--	--	--	--	--	--	--	3,380	--	--
1/	102	791	Apr. 12, 1950	Khc	--	--	--	--	--	--	460	650	532	--	--	--	--	--	150	--	3,370	8.0	--
1/	102	830	Apr. 20, 1950	Ktp	--	--	--	--	--	--	196	600	125	--	--	--	--	--	--	--	1,680	--	--
1/	102	850	Apr. 28, 1950	do.	--	--	--	--	--	--	220	620	90	--	--	--	--	--	--	--	1,700	--	--
1/	102	876	do.	do.	--	--	--	--	--	--	209	580	86	--	--	--	--	--	--	--	1,610	--	--
1/	102	901 909	July 25, 1951	do.	--	--	--	--	--	--	160	650	95	--	--	--	--	--	--	--	1,750	7.4	--
1/	102	909	do.	do.	--	4.4	--	--	--	--	346	1,600	245	--	--	--	--	--	1,770	--	4,700	7.3	--
2/	401	1,975	Nov. 15, 1938	do.	--	--	32	14	* 514	--	512	445	253	5.6	< 20	--	1,520	--	139	89	--	--	19.1
1/	401	1,975	Oct. 1, 1941	do.	14	.1	8.1	8.9	* 496	--	463	347	280	5.3	0.0	--	1,380	--	56	95	--	--	28.8
1/	702	1,554	Feb. 1905	do.	13	--	77	4.4	* 421	--	211	699	145	--	--	--	1,460	--	--	81	--	--	12.6
2/	702	1,554	1937	do.	--	--	46	36	* 492	--	519	668	150	7.3	< 20	--	1,650	--	262	80	--	--	13.2
2/	702	1,554	Oct. 1, 1941	do.	14	.04	36	32	* 473	--	414	668	140	6.3	.0	--	1,610	1,573	221	82	--	8.5	13.8
1/	702	1,554	Mar. 2, 1951	do.	14	.1	46	32	* 501	--	502	670	142	10	.0	2.7	1,660	--	246	82	2,490	7.7	13.9
	702	1,554	Oct. 29, 1964	do.	14	--	45	28	469	--	493	590	138	8.6	< .4	--	1,790	1,535	228	82	2,320	7.7	13.5
1/	703	2,250	Oct. 1, 1941	Kho	17	.06	14	5.9	* 532	--	479	303	325	2.9	.0	--	1,520	1,436	60	95	--	8.7	30.1
	703	2,250	May 17, 1966	do.	18	--	16	6	530	--	540	333	324	4.5	< .4	--	1,500	--	62	95	2,345	7.9	28.5
2/	704	2,025	Sept. 8, 1937	do.	--	--	48	37	* 534	--	504	627	245	6.9	< 20	--	1,750	--	272	81	--	--	14.1
2/	801	1,147	July 4, 1938	Ktp	--	--	368	204	* 1,900	--	236	2,210	2,410	3.2	< 20	--	7,210	--	1,760	70	--	--	19.7
2/	801	1,147	Sept. 18, 1938	do.	--	--	376	213	* 1,880	--	325	2,160	2,370	3.6	--	--	7,190	7,163	1,810	69	--	--	19.2
3/	801	1,147	Oct. 29, 1964	do.	--	--	311	174	* 1,050	--	388	2,370	840	5.5	--	--	--	--	--	61	--	7.6	11.8
2/	44-201	3,001	July 12, 1938	Kho	--	--	90	25	* 508	--	369	727	260	3.7	< 20	--	1,790	--	328	77	--	--	12.2

See footnotes at end of table.

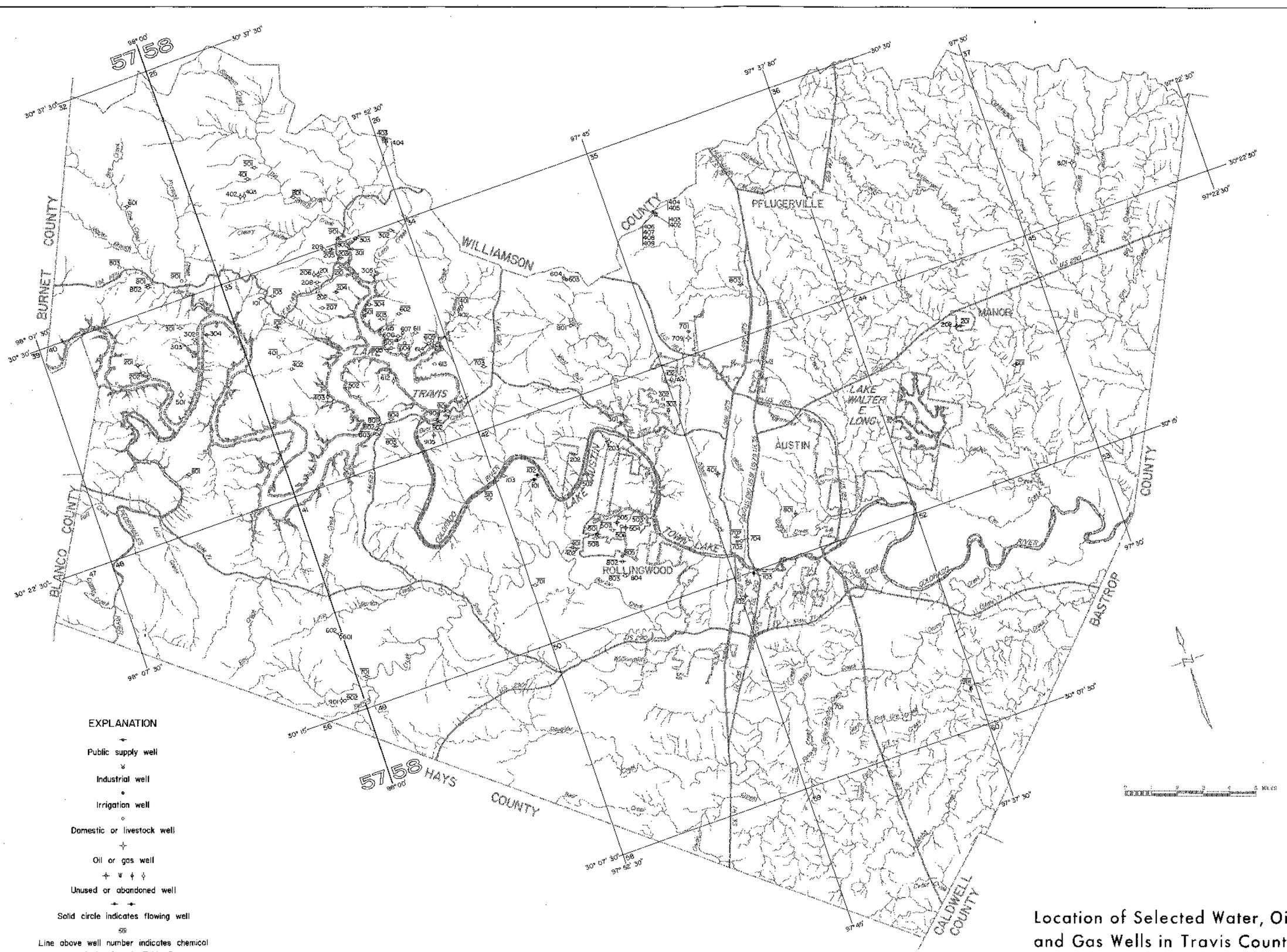
Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
2/ YD-58-44-201	3,001	Mar. 20, 1941	Kho	--	--	94	24	* 517	--	366	746	264	3.2	< 20	--	1,830	--	335	77	--	--	12.4
1/ 201	3,001	Dec. 23, 1946	do.	15	1	91	26	* 542	--	396	739	270	4	2.2	--	1,910	1,885	334	78	3,840	7.5	12.9
601	3,250	June 1, 1966	do.	22	3.8	157	52	520	--	321	1,060	277	3.3	< .4	--	2,250	--	610	65	3,160	7.5	9.2
2/ 51-102	2,246	Aug. 18, 1937	do.	--	--	--	--	--	--	122	500	345	3.8	< 20	--	--	--	50	--	--	--	--
1/ 102	2,246	Sept. 1, 1952	do.	19	.48	13	6.2	* 566	--	568	327	328	3.6	.5	1.6	1,540	--	58	96	2,570	8.0	32.4
102	2,246	Oct. 29, 1964	do.	17	--	17	3	550	--	570	343	334	5.3	.4	--	1,840	1,550	55	96	2,450	7.9	32.3
2/ 103	1,595	Aug. 18, 1937	Ktp	--	--	--	--	--	--	430	350	82	4	< 20	--	--	--	--	--	--	--	--
3/ 103	1,595	July 27, 1961	do.	--	.38	38	28	389	--	417	470	102	6.5	< .9	--	1,416	1,239	210	80	--	7.7	11.7
2/ 701	2,425	Aug. 18, 1937	do.	--	--	--	--	--	--	380	700	142	--	6.7	--	--	--	453	--	--	--	--
1/ 701	2,425	Aug. 8, 1949	do.	16	--	159	97	* 435	--	422	1,130	152	--	5.5	--	2,200	--	796	54	2,980	7.9	6.7
2/ 901	3,008	Aug. 19, 1937	Kho	--	--	--	--	--	--	7	1,750	988	--	.0	--	--	--	1,140	--	--	--	--

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

1/ U.S. Geological Survey Laboratory
2/ The University of Texas
3/ Trinity Testing Laboratories
4/ Curtis Laboratories
5/ Laboratory unknown



Location of Selected Water, Oil, and Gas Wells in Travis County

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Bensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

	WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
						DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
	ZK-57-32-301	B. Sherrod	--	--	700	--	--	Kcp	1,305	--	--	C, E 1-1/2	S, Ind	--
*	58-10-201	City of Florence	G. F. Hunt	1925	685	8 6	300 600	Khe	997	297.3 297.3	Aug. 30, 1966 Mar. 5, 1969	Sub, E 10	P	Pumping level 339 ft at 60 gpm on Feb. 19, 1965. Pump set at 400 ft. Reported yield 75 gpm. Texas Water Development Board observation well. 3/ 4/
*	202	do.	Hunt and Morgan	--	728	6	700	do.	997	278.15 293.7	Mar. 17, 1966 Mar. 5, 1969	Sub, E 15	P	Open hole completion from 700 to 728 ft. Pump set at 400 ft. Reported yield 100 gpm. Texas Water Development Board observation well. 3/ 4/
	203	W. T. Chambers	Hunt Drilling Co.	1968	725	7	32	Kgr,Khe	1,035	--	--	--	P	Open hole completion from 32 to 725 ft. 2/
*	204	City of Florence	Wright Drilling Co.	1968	857	8 6	692 847	Khe,Kho	1,030	308 254.20	Apr. 29, 1968 Jan. 7, 1969	Sub, E 30	P	Slotted from 692 to 725 and 780 to 847 ft. Pump set at 600 ft. Reported yield 130 gpm. 1/ 2/
*	702	J. D. Morgan	Hunt Drilling Co.	1962	630	6	40	Kgr,Ktp	1,005	167.2 180.2	Mar. 17, 1966 Mar. 3, 1969	Sub, E	P	Open hole completion from 40 to 630 ft. Pump set at 380 ft. Reported yield 10 gpm. Temp. 73°F. Texas Water Development Board observation well. Well supplies Andice, Texas. 4/
	11-801	Hartwin H. Holmstrom	do.	1948	905	7	100	do.	880	110 181.90	Nov. 1948 Mar. 5, 1969	C, W	S	Open hole completion from 100 to 905 ft. Pumping level 160 ft at 40 gpm in Nov. 1948. Texas Water Development Board observation well. 4/
*	12-401	F. J. Viktorin	Marion Johnson	1915	615	6	--	Kea	890	242 244.65	Feb. 28, 1941 Mar. 16, 1966	C, G 12	P	Well supplies Jarrell, Texas.
	402	do.	G. F. Hunt	1936	--	6	240	do.	905	261	Mar. 20, 1941	C, W	P	Do.
	403	do.	--	--	--	--	--	do.	905	--	--	C, W	P	Do.
*	404	do.	--	1958	400	--	--	do.	890	260.13 252.9	May 12, 1967 Mar. 5, 1969	Sub, E 1-1/2	P	Pump set at 300 ft. Texas Water Development Board observation well. Well supplies Jarrell, Texas. 4/
	405	Felix Schwertner	--	--	400	6	--	do.	903	273.03 264.62	Sept. 7, 1949 Mar. 17, 1969	C, E	D, S	Texas Water Development Board observation well. 4/
*	601	Adolph Schwertner	Angle Brothers	1910	1,041	12 6	200 600	do.	690	200 62.70	Aug. 7, 1940 Mar. 17, 1969	Sub, E 2	P	Open hole completion. Texas Water Development Board observation well. Well supplies Schwertner, Texas. 4/
*	13-501	City of Bartlett	J. W. Dyson	1903	1,320	10 6	-- --	do.	601	+ 28.0	Feb. 5, 1941 Apr. 2, 1969	A, E 10	N	Reported yield 350 gpm.
*	502	do.	Layne Texas Co.	1936	1,595	8	1,006	Kea	600	+	Feb. 5, 1941	T, E 15	N	Pumping level 150 ft at 200 gpm on Oct. 5, 1936. Pump set at 160 ft. Reported yield 235 gpm. 1/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* ZK-58-13-503	City of Bartlett	J. L. Myers Sons	1958	2,617	10 7 5	765 2,471 2,617	Kho	600	50 101.6	Mar. 15, 1958 Apr. 2, 1969	T, E	P	Slotted from 2,471 to 2,617 ft. Pumping level 108 ft at 228 gpm on Feb. 9, 1965. Pump set at 300 ft. Texas Water Development Board observation well. 1/ 2/ 4/
* 17-301	W. B. Collins	Powell Drilling	1967	420	7	21	Kgr,Ktp	925	91.98	Jan. 18, 1967	Sub, E 3	D, S	Open hole completion from 21 to 420 ft. Pumping level 120 ft at 70 gpm in Jan. 1967. Pump set at 150 ft. Reported yield 25 gpm. Well filled with gravel from 355 to 420 ft. Temp. 71°F. 1/ 2/
* 801	Mrs. L. T. Huggins and Wilson Parks	--	--	450	--	--	Kgr,Khe	1,025	--	--	N	N	--
802	Wilson Parks	J. B. Henderson	1961	450	8	62	do.	1,025	196.45 201.4	Mar. 17, 1966 Mar. 4, 1969	Sub, E 1-1/2	D	Open hole completion from 62 to 450 ft. Texas Water Development Board observation well. 4/
* 803	Liberty Hill Water Supply Corp.	Wright Drilling Co.	1965	450	8 6	376 453	Khe	1,030	195	Mar. 9, 1965	T, E	P	Slotted from 382 to 443 ft. Pumping level 277 ft at 120 gpm on Mar. 9, 1965. Estimated yield 90 gpm. Cemented from 376 ft to surface. Well drilled to 500 ft and plugged back to 450 ft. 1/ 2/
901	Texas Quarries	Hunt Drilling Co.	--	500	--	--	Kgr,Khe	1,025	--	--	Sub, E 1-1/2	N	--
* 18-401	Walter Carrington	Sterzing Drilling Co.	1967	510	7	409	Ktp	935	103.9 115.53	Mar. 17, 1967 May 17, 1967	Sub, E	S	Open hole completion from 409 to 510 ft. Pumping level 125 ft at 25 gpm on May 17, 1967. Pump set at 189 ft. Reported yield 18 gpm. Cemented from 409 ft to surface. Temp. 74°F. 1/ 2/ 3/
* 501	Burt Ball	--	--	539	12	30	Kgr,Khe	845	1 45	July 8, 1940 Jan. 20, 1969	N	N	Open hole completion from 30 to 539 ft. 2/
701	Col. Sims	--	1954	700	10	--	Ktp	992	160.2 174.80	Mar. 21, 1966 Jan. 16, 1968	C, E	S	Reported yield 200 gpm. Texas Water Development Board observation well. 4/
703	E. W. McCollum	--	1952	700	12	--	do.	1,015	--	--	T, G	N	Reported yield 300 gpm.
19-301	James Chrislip	--	--	--	8	--	Kcm	760	100.27 94.4	Sept. 7, 1949 Mar. 17, 1969	Sub, E	D, S	Pump set at 100 ft. Texas Water Development Board observation well. 4/
* 501	City of Georgetown	--	--	40	--	--	do.	760	--	--	--	P	Reported yield 15 gpm.
* 601	Mrs. N. L. Mann	--	1950	100	12	--	do.	660	+ +	Jan. 17, 1961 June 14, 1968	T, E	Irr	Reported flow 20 gpm. Temp 70°F.
602	A. G. Braun	-- Harper	1948	47	7	18	do.	700	18 27	Aug. 4, 1950 July 9, 1956	J, E	N	Open hole completion from 18 to 47 ft. Former Texas Water Development Board observation well.
604	do.	do.	1948	47	8	18	do.	700	1.60 4.34	Mar. 16, 1966 Apr. 2, 1969	T, C	N	Open hole completion from 18 to 47 ft. Reported yield 300 gpm. Texas Water Development Board observation well. 4/
605	do.	Hunt and Morgan	1956	56	12	19	do.	700	27.18 3.65	Jan. 9, 1957 Apr. 2, 1969	N	N	Open hole completion from 19 to 56 ft. Texas Water Development Board observation well. 4/
606	do.	-- Robinson	1940	100	6	--	do.	700	27	Aug. 4, 1950	C, W	D, S	Open hole completion.
* 803	City of Georgetown	Layne Texas Co.	1952	186	12	91	do.	750	88 75.25	May 15, 1952 Apr. 2, 1969	T, E 40	P	Open hole completion from 91 to 186 ft. Pumping level 100 ft at 754 gpm on May 15, 1952. Pump set at 167 ft. Texas Water Development Board observation well. 1/ 4/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* ZK-58-19-804	City of Georgetown	Layne Texas Co.	1952	210	12	103	Kea	750	89 102 80	May 15, 1952 July 28, 1956 July 2, 1968	T, E	P	Open hole completion from 103 to 210 ft. Pumping level 97 ft at 759 gpm on May 15, 1952. Pump set at 150 ft. 1/
* 805	do.	do.	1957	175	16	44	do.	680	5 + +	June 24, 1957 June 1958 Jan. 17, 1961	T, E	P	Open hole completion from 44 to 175 ft. Pumping level 10 ft at 2,005 gpm on June 24, 1957. Pump set at 80 ft. 1/
810	Doyle Lyda	Harrison Well Service	1969	1,116	6	42	Kgr, Ktp	780	52.0	Aug. 4, 1969	--	D	Open hole completion from 42 to 1,116 ft. 2/
* 20-101	Walter Jacobs	Brown Brothers	1908	590	6	--	Kea	855	180 205.10	Aug. 2, 1940 Jan. 7, 1969	C, W, G	P	Well supplies Walburg, Texas.
* 102	do.	--	1957	603	6	447	do.	855	230 212.14	1957 Mar. 17, 1969	Sub, E 2	P	Open hole completion from 447 to 603 ft. Reported yield 12 gpm. Texas Water Development Board observation well. Well supplies Walburg, Texas. 4/
* 401	Mrs. J. E. Smith	John Cloud	1908	412	6	--	do.	885	32 51.95	Mar. 21, 1941 Mar. 17, 1967	T, E	P	Pumping level 73 ft at 10 gpm on July 30, 1940. Texas Water Development Board observation well. Well supplies Weir, Texas. 4/
* 901	Ansel Holmstrom	--	1953	745	7	--	do.	600	+ + 21.29	1953 Mar. 18, 1969	R, E 1/3	D, S	Temp. 77°F. Texas Water Development Board observation well. 4/
* 21-201	City of Granger	-- Monahan	1908	2,531	8 6 4	800 2,431 2,531	Kho	578	+ 35	July 15, 1944	N	N	Perforated from 2,431 to 2,531 ft. Reported flowed 200 gpm.
202	do.	J. L. Myers Sons	1947	2,607	16 10 7 5	80 600 2,341 2,605	do.	575	28 79.31	1960 Mar. 18, 1969	T, E	P	Slotted from 2,341 to 2,605 ft. Pumping level 123 ft at 310 gpm on Jan. 13, 1965. Reported flowed 200 gpm in 1947. Texas Water Development Board observation well. 1/ 2/ 3/ 4/
* 203	do.	do.	1956	2,606	12 8 5	72 606 2,606	do.	578	28 64.2	1960 Jan. 7, 1965	T, E	P	Slotted from 2,356 to 2,606 ft. Reported yield 275 gpm. Temp. 100°F. 1/ 2/ 3/
* 26-401	Leander School	S. W. Sanford	1954	780	6	42	Ktp	985	150 225.00	May 8, 1954 Mar. 20, 1968	Sub, E 2	P	Open hole completion from 42 to 780 ft. Pumping level 210 ft at 15 gpm on May 8, 1954. Pump set at 400 ft. Texas Water Development Board observation well. 4/
* 701	T. L. Allan	--	1930	1,185	--	--	do.	1,050	--	--	Sub, E 2	Ind	Well used by Texas Quarries.
* 702	Mrs. Stuart Walker	J. D. Henderson	1951	700	6	6	Kgr, Khe	958	130	1951	C, E	D, S	Open hole completion from 6 to 700 ft. Reported yield 4 gpm.
* 703	White Stone Lime Co.	Powell Drilling	1964	930	8 5	40 930	Ktp	1,015	157.55	Jan. 7, 1969	Sub, E 5	Ind	Open hole completion from 40 to 750 ft. Perforated from 900 to 930 ft. Pumping level 525 ft at 16 gpm. Pump set at 567 ft. Temp. 78°F.
704	do.	do.	1958	860	7	--	do.	1,015	315 194.35	Oct. 23, 1958 Jan. 7, 1969	Sub, E 5	Ind	Open hole completion. Pumping level 434 ft at 20 gpm. Pump set at 567 ft. Well filled with gravel from 700 to 860 ft.
705	Texas Quarries	do.	1962	850	--	--	do.	1,030	383.25 416.75	Mar. 21, 1966 Mar. 4, 1969	Sub, E 5	Ind	Reported yield 12 gpm. Texas Water Development Board observation well. 4/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* ZK-58-27-101	Doc Weir	Harvey Meadows and Son Well Driller	1962	1,224	7 5	1,000 1,224	Kho	880	130 137.5	May 1965 Apr. 2, 1969	Sub, E 1-1/2	D, S	Slotted from 1,175 to 1,224 ft. Pump set at 400 ft. Reported yield 10 gpm. Temp. 77°F. Texas Water Development Board observation well. 2/ 4/
201	Texas Crushed Stone Co.	--	1959	200	6	--	Kea	810	130	1959	Sub, E	Ind	Reported yield 50 gpm.
202	do.	--	1959	200	6	--	do.	810	130 94.92	1959 Apr. 2, 1969	Sub, E 1/3	Ind	Texas Water Development Board observation well. 4/
504	-- Hoppy	--	--	400	6	--	do.	780	97.40 77.18	Aug. 7, 1950 Apr. 2, 1969	C, E	D, S	Do.
* 505	Texas Highway Department	Sterzing Drilling Co.	1966	225	6	--	do.	740	33	June 3, 1966	Sub, E 10	P	Slotted. Pumping level 137 ft at 83 gpm on June 6, 1966. Reported yield 75 gpm. Well drilled to 454 ft and plugged back to 225 ft. 2/
506	--	--	--	345	--	--	do.	740	--	--	--	N	Well was used in construction of Interstate Highway 35. 2/
507	Texas Highway Department	Sterzing Drilling Co.	1966	159	6	153	do.	755	58	June 25, 1966	Sub, E 10	P	Slotted from 60 to 140 ft. Pump set at 140 ft. Reported yield 75 gpm. Cemented from 58 ft to surface. 2/
* 801	City of Round Rock	Miles Robertson	1934	222	12	30	do.	700	40 4	1957 Apr. 2, 1969	T, E 40	P	Reported yield 750 gpm. Temp. 69°F. Texas Water Development Board observation well. 1/ 4/
* 802	do.	--	--	220	8	--	do.	700	+ 40	1957 Jan. 17, 1961	T, E	P	Reported yield 250 gpm.
803	Round Rock White Lime Co.	A. Z. Daniels	--	285	6	--	do.	750	--	--	Sub, E	Ind	--
804	do.	S. W. Sanford	1960	400	8	15	do.	735	70	July 1960	Sub, E	Ind	Open hole completion from 15 to 400 ft.
* 901	Frank Anderson	-- Glass	1956	425	10 8 6	70 290 425	do.	700	36 60.66	Jan. 19, 1961 Apr. 1, 1969	T, G	Irr	Slotted from 290 to 425 ft. Pump set at 300 ft. Reported yield 250 gpm. Cemented. Texas Water Development Board observation well. 4/
* 902	E. C. Overall	S. W. Sanford	1956	504	--	--	do.	685	52 24.89	Mar. 1956 Apr. 1, 1969	N	N	Texas Water Development Board observation well. 4/
* 28-601	City of Hutto	G. F. Hunt	1937	790	8	--	do.	640	66 42.60	July 10, 1940 Mar. 17, 1969	Sub, E 15	P	Do.
602	do.	Sterzing Drilling Co.	1964	787	7	590	do.	660	110	Sept. 2, 1964	--	P	Open hole completion from 590 to 787 ft. Pumping level 180 ft at 20 gpm on Sept. 2 1964. Cemented from 590 ft to surface. 1/
* 29-501	J. A. Bigon	Central Texas Drilling Co., Inc.	1969	1,115	6 4	926	do.	618	--	--	--	Ind	Slotted from 1,025 to 1,115 ft. 2/
* 602	City of Taylor	Lanning and Coffield Drilling Co.	1934	3,308	16 8 6	348 2,715 3,308	Kho	567	+ 92 67.09	Sept. 1934 Mar. 18, 1969	T, E 75	P	Perforated from 2,691 to 3,308 ft. Texas Water Development Board observation well. 1/ 4/
* 603	do.	Layne Texas Co.	1946	3,335	16 10 7	400 2,795 3,335	do.	553	+ 51 49.49	Aug. 18, 1946 Mar. 18, 1969	T, E 75	P	Slotted from 2,749 to 3,335 ft. Pumping level 61 ft at 1,076 gpm on Oct. 23, 1953. Pump set at 150 ft. Texas Water Development Board observation well. 1/ 2/ 4/

See footnotes at end of table.

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* ZK-58-29-604	City of Taylor	Layne Texas Co.	1954	3,356	20 16 8 6	30 454 2,779 3,356	Kho	537	+ 34.23	Feb. 19, 1954 Mar. 18, 1969	T, E 100	P	Screened from 2,780 to 2,950 and 2,970 to 3,346 ft. Pumping level 187 ft at 1,089 gpm on Jan. 14, 1965. Temp. 116°F. Texas Water Development Board observation well. 1/ 2/ 3/ 4/
605	Taylor Bedding Co.	do.	1944	3,353	7 4	2,767 3,353	do.	547	+ 9 17	Jan. 1944 1959 1960	T, E	Ind	Perforated from 2,761 to 3,352 ft. Reported flowed 450 gpm in 1944. 1/
35-102	Austin White Lime Co.	Central Texas Drilling Co., Inc.	--	65	7	39	Kea	810	--	--	T, E 7	Ind	Open hole completion.
103	do.	Sterzing Drilling Co.	1955	80	10	20	do.	790	30	--	Sub, E 7-1/2	Ind	Open hole completion from 20 to 80 ft. Reported yield 22 gpm. 1/
* 204	City of Round Rock	Smith and Bradshaw	1964	370	--	--	do.	792	148 90.93 122.45	May 13, 1964 Mar. 19, 1968 Apr. 2, 1969	T, E	P	Pumping level 280 ft at 310 gpm on May 13, 1964. Pump set at 280 ft. 1/ 3/
* 36-301	Henry Hooper	Sterzing Drilling Co.	1956	1,950	7 4	900 1,050	do.	625	38	1961	N	N	Slotted. Reported yield 20 gpm. Well plugged and abandoned.

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For results of pumping tests, yields and specific capacities of wells, see Table 4, Volume I.
4/ For water-level measurements, see Table 4.

WILLIAMSON COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric; R, Radioactive; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
ZK-58-09-501	Atlantic-Richfield	Harry B. Lewis No. 1	1967	8,462	981	E,S
601	Shell Oil Co.	Purcell No. 1	1954	9,470	1,069	E,S
901	Hewit and Dougherty	J. W. Pearson No. 1	1952	9,104	1,080	E
12-406	S. L. Carpenter	S. J. Seward No. 1	1948	2,023	893	E
19-809	Layne Texas Co.	City of Georgetown No. 7	1946	1,698	750	E
22-401	Puma Oil and Gas Co.	Rosie Simcik No. 1	1948	2,145	490	E
27-701	Louis Henna, et al.	Alsa Brook No. 2	1948	2,333	759	E
28-301	M. N. Stafford	Tubbs No. 1	1964	2,919	610	E
29-901	Grubb and Fertitta	Marjorie Rhoades No. 1	1966	1,445	500	E
34-302	I. C. Pearson	Pearson-D-H-A Well	1953	1,400	900	R
35-101	do.	O. H. Parker	1956	6,000	925	R
37-201	W. M. Jarrell	L. V. Coupland No. 1	1950	3,572	545	E
601	Anderson-Pritchard Oil Co.	Theo Schwenke No. 2	—	1,326	522	E

Table 3.—Drillers' Logs of Selected Wells

Well ZK-58-10-204

Owner: City of Florence
Driller: Wright Drilling Co.

	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	2	2
Caliche	13	15
Firm, blue limestone	100	115
Blue shale	25	140
Blue limestone	552	692
Sand and water	33	725
Hard limestone	7	732
Shale	4	736
Hard, gray limestone	40	776
Hard, sandy limestone	4	780
Sand	67	847
Red bed	9	856
Dark shale	1	857

Well ZK-58-13-502

Owner: City of Bartlett
Driller: Layne Texas Co.

	THICKNESS (FEET)	DEPTH (FEET)
Soil	3	3
Clay and gravel	53	56
Green shale	153	209
Hard shale with pyrites of iron	75	284
Hard shale or chalk	15	299
Rock	29	328
Lime rock	107	435
Rock	72	507
Lime rock	81	588
Rock	52	640
Lime with hard layers	125	765
Brown shale	78	843
Rock	37	880
Shale	65	945
Rock	26	971
Hard lime	9	980
Rock	12	992
Lime	6	998
Rock	5	1,003

Well ZK-58-13-502—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Lime	38	1,041
Lime rock	10	1,051
Lime	31	1,082
Lime rock	31	1,113
Lime	24	1,137
Lime rock	10	1,147
Lime and shale	17	1,164
Lime	18	1,182
Rock	67	1,249
Rock and layers of shale	36	1,285
Lime rock	46	1,331
Rock with layers of shale	19	1,350
Lime	36	1,386
Rock	38	1,424
Lime	62	1,486
Shale and rock	109	1,595

Well ZK-58-13-503

Owner: City of Bartlett
Driller: J. L. Myers Sons

	THICKNESS (FEET)	DEPTH (FEET)
Clay and gravel	40	40
Sand and clay	25	65
Shale	100	165
Rock	113	278
Shale	166	444
Lime rock	326	770
Shale	80	850
Lime shale	100	950
Lime	22	972
Lime rock	57	1,029
Shale	46	1,075
Lime rock	54	1,129
Lime	124	1,253
Lime shale	56	1,309
Lime	331	1,640
Broken lime	294	1,934
Broken shale	137	2,071
Shale	29	2,100

Table 3.--Drillers' Logs of Selected Wells in Williamson County--Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-13-503--Continued		
Sand	30	2,130
Broken lime	96	2,226
Shale	69	2,295
Sand	80	2,375
Broken sand	93	2,468
Sand	149	2,617
Well ZK-58-17-301		
Owner: W. B. Collins Driller: Powell Drilling		
Soil and rock	12	12
Yellow rock and gravel	2	14
Lime rock	10	24
Blue lime rock	14	38
White lime rock	64	102
Lime (water - 1 gpm)	6	108
White, lime rock	12	120
Dark gray formation	6	126
White, lime rock	82	208
White, sandy lime	12	225
White and yellowish lime	55	280
Hard, cap lime	1	281
Black shale	4	285
Shale layers	7	292
Dove-color, sharp lime and some sand	31	323
Coarse, dry sand	5	328
Lime layer	2	330
Fine sand (water slowly rising 10 to 15 gpm)	4	334
Layers of coarse sand (no change in water)	7	341
Coarse sand	5	346
White, coarse sand	18	364
Buttermilk lime and sand	14	378
Loose, medium sand	6	384
Green shale	1	385
Medium sand	11	396
Coarse sand (main water sand)	14	410
Hard, white, limy sand, running out	10	420
Well ZK-58-17-803		
Owner: Liberty Hill Water Supply Corp. Driller: Wright Drilling Co.		
Black topsoil	1.5	1.5
Red clay and gravel	4.5	6
Caliche	22	28
Blue, sandy clay and gravel	9	37
Soft, blue limestone	103	140
Firm, gray limestone	180	320
Dry sand of the Trinity formation	8	328
Fine, gray sand - Trinity - dry	8	336
Dark gray sand rock	37	373
Hard lime shelf	2	375
Sand rock	6	381
Trinity sand and thin rock ledges with water	61	442
Hard, white limestone	58	500
Well ZK-58-18-401		
Owner: Walter Carrington Driller: Sterzing Drilling Co.		
(Description of samples by R. L. Bluntzer)		
Not sampled	35	35
Light brownish gray, coarsely crystalline, dolomitic limestone (40%); dark gray to black, finely crystalline, shaly, asphaltic oolitic limestone (15%); buff, finely to coarsely crystalline, fossiliferous (fragments) limestone (5%); white anhydrite (10%); and shale (30%)	5	40
Not sampled	15	55
White to light gray, finely crystalline, fossiliferous, asphaltic, oolitic, limestone (35%); brownish gray to dark gray, fine crystalline, silty limestone (10%); White anhydrite (5%); trace of buff limestone as above; and shale (50%)	5	60
Not sampled	15	75
White to dark gray to black, oolitic, finely crystalline, asphaltic, fossiliferous, limestone (30%); dark gray, finely crystalline, silty limestone (10%); white anhydrite (20%); and shale (40%)	5	80

Table 3.—Drillers' logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-17-301—Continued		
Not sampled	15	95
White to purple to brownish gray anhydrite (40%); same limestone as above (25%); and shale (35%)	5	100
Not sampled	15	115
White to gray anhydrite (30%); limestone above (10%); and shale (60%)	5	120
Not sampled	15	135
Light gray, finely crystalline, hard fossiliferous, silty to sandy limestone (75%); anhydrite (10%); and shale (15%)	5	140
Not sampled	15	155
Light gray to dark gray, very sandy to very silty, shaly, fossiliferous, asphaltic finely to coarsely crystalline, limestone (95%); and shale (5%)	5	160
Not sampled	15	175
Cream to dark gray, sandy to silty, fossiliferous, asphaltic, finely to coarsely crystaline, shaly limestone (40%); light brownish gray, coarsely crystalline, shaly limestone (20%); and dark gray, slightly sandy to silty, shale (40%)	5	180
Not sampled	15	195
Same cream to dark gray limestone as above but with calcite seams and highly fossiliferous (85%); and shale above (15%)	5	200
Not sampled	15	215
Same cream to dark gray limestone as above (30%); and very fine to fine, very very shaly to silty, light gray, bentonitic, lignitic pyritic, calcareous sandstone (70%); first water (as seep) reported by driller; water samples taken	5	220
Not sampled	15	235
Light gray, very limy, very shaly to silty very fine to fine, fossiliferous slighty pyritic sandstone (80%); and same cream to dark gray limestone as above (20%)	5	240
Not sampled	15	255
White to light tannish gray, hard, highly fossiliferous, pyritic, calcitic (in seams, crystals and fossils) slightly oolitic, limestone (100%)	5	260
Not sampled	15	275
Light tannish gray, finely crystalline, very fossiliferous, slightly oolitic, pyritic, very sandy to silty, slightly shaly carboniferous limestone (100%)	5	280
Not sampled	15	295
Same limestone as above but very very shaly (80%); and dark brownish gray to light gray, silty to sandy, calcareous shale (20%)	5	300
Very fine to very coarse, poorly sorted, silty to shaly, angular, loose sand with grains of clear to brown quartz and very fine to coarse, poorly sorted, silty, well carbonate cemented calcareous, slighty shaly, hard, white to dark gray sandstone (65%); and light gray, hard, very calcareous, silty to slightly sandy, slightly fossiliferous shale (35%)	5	305
Same sand and sandstone as above except very fine to very coarse and pebbly quartz (50%); and same shale as above (50%)	5	310
Light gray silty to slightly sandy, soft, very gummy, shale (100%)	5	315
Light gray, hard, silty to slightly sandy, fossiliferous, slightly pyritic, slightly carboniferous limestone (85%); and same sand and sandstone as from 300 to 305 ft (15%)	5	320
Dark gray, hard to gummy, silty to sandy, calcareous, shale (60%); same limestone as above (40%); and some same sand as above	5	325
Hard, brownish gray, very sandy, fossiliferous (fragments), calcareous shale—actually siltstone (90%); and same limestone as above from 315 to 320 ft (10%)	5	330

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-17-301—Continued		
Hard, light gray, sandy to silty, fossiliferous, very calcareous, slightly pyritic shale (90%); and same shale (siltstone) as above (10%)	5	335
Very fine, well-sorted, very very shaly, silty, calcareous sandstone (100%)	5	340
Very fine to very coarse, mostly fine (well-sorted), subrounded to rounded, slightly pebbly, silty to shaly, calcareous, calcitic (possibly in seams as crystals), light to dark brownish gray, quartz sandstone (95%); white to light gray, finely crystalline, limestone (5%); and some white anhydrite	5	345
Same sandstone as above from 340 to 345 ft but has pebbles and sand grains of black chert (20%); and light gray, hard to gummy, silty to sandy, fossiliferous, calcareous shale (80%)	5	350
Same shale as above but very gummy (100%)	5	355
Same shale as above (90%); and same sandstone as above from 340 to 345 ft (10%)	5	360
Dark to light gray, hard to slightly gummy, silty to sandy shale (40%); light gray to white, finely crystalline, brown stained, fossiliferous, limestone (40%); same sandstone as above from 340 to 345 ft (20%)	5	365
Same shale as above from 360 to 365 ft (60%); same limestone as above from 360 to 365 ft (10%); and same sandstone as above from 360 to 365 ft (30%)	5	370
Very hard, very fine to pebbly, poorly sorted, subangular to rounded, carbonate cemented, very silty, fossiliferous (fragments) calcareous, light to dark gray sandstone with grains of gray, brown, and clear quartz, white to buff to gray limestone, black siltstone and shale that is mostly quartz (60%); and light tannish gray, hard, very silty to very sandy fossiliferous, calcitic (in seams), slightly oolitic, limestone (40%)	5	375
Same sandstone as above from 370 to 375 ft (90%); and same limestone as above from 370 to 375 ft (10%)	5	380
Same sandstone as above from 370 to 375 ft (20%); very fine to coarse, mostly very fine, well sorted, subangular (large grains) to rounded (small grains), very silty to slightly shaly calcareous, calcitic, quartz sandstone (60%); and dark gray, fissil, laminated shale (20%)	5	385
Same sandstone as above from 380 to 385 ft (55%); same sandstone as above from 370 to 375 ft (40%); and same laminated shale as above from 380 to 385 ft (5%)	5	390
Very fine to pebbly, poorly sorted, subangular to rounded, very very shaly, silty sand and sandstone (80%); and same sandstone (listed 2nd-from 380 to 385 ft as above (20%)	5	395
Same sandstones as above from 390 to 395 ft and 380 to 385 ft (100%)	5	400
Same sandstones as above from 395 to 400 ft (100%)	5	405
Very fine to very coarse, very pebbly, very silty, poorly sorted, rounded (frosted) to angular (unfrosted), very loose to slightly cemented, slightly asphaltic, pyritic, mostly clear quartz sand with some grains of brown, black, and white chert and some limestone (60%); very hard, very fine to coarse, carbonate cemented sandstone with same grain of quartz etc. as above (10%); and gray, laminated, slightly silty shale (30%)	5	410
Tannish gray, finely crystalline, very pyritic, hard, silty to sandy limestone (35%); and very fine to coarse, silty, pebbly, carbonate cemented, pyritic, light tannish to dark gray, slightly ferruginous sandstone with grains of clear quartz and brown and black chert (65%)	5	415
Fine to coarse, reasonably sorted, subangular to well rounded, pyritic, mostly clear quartz, loose sand with some grains of limestone (?) and chert (100%); and some carbonate cemented sandstone; first good water sand	5	420

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-17-301—Continued		
Same sand as above from 415 to 420 ft (100%)	5	425
Medium to coarse, pebbly, angular to subrounded, frosted, pyritic, loose sand with grains of clear quartz, dark gray limestone and white, gray and black chert (80%); and very fine to medium, carbonate cemented, light gray to white, pyritic sandstone (20%)	5	430
Same sand as above from 425 to 430 ft (30%); same sandstone as above from 425 to 430 ft (40%); white to light gray, finely crystalline, pyritic, silty to sand, hard limestone (25%); and light gray, laminated, silty, calcareous, shale (5%)	5	435
Light tannish to dark gray finely crystalline, pyritic, silty to sand, hard limestone (100%)	5	440
Same limestone as above from 435 to 440 ft (60%); same sand and sandstone as above from 425 to 430 ft (40%)	5	445
Not sampled	5	450
White to dark gray, finely crystalline, pyritic, slightly silty to sandy, hard limestone (90%); and same sand and sandstone as above from 440 to 445 ft (10%)	5	455
Same limestone as above from 450 to 455 ft (80%); and same loose sand as above from 440 to 445 ft (20%)	5	460
Same limestone as above from 450 to 455 ft (90%); same sand and sandstone as above from 440 to 445 ft (10%)	5	465
Same limestone as above from 450 to 455 ft (50%); and same sand as above from 440 to 445 ft (50%)	5	470
White to buff to brown, finely crystalline, silty to sandy, hard limestone (30%); and fine to pebbly, rounded (frosted) to angular (slighty frosted), poorly sorted, carboniferous, pyritic, ferruginous, very shaly to silty, loose, clear to gray to brown quartz sand with other grains of limestone and chert (70%)	5	475
Same limestone as above from 470 to 475 ft (50%); and same sand as above from 470 to 475 ft (50%)	5	480
White to light gray, very fine to fine, medium sorted, hard, carbonaceous, calcareous, slightly silty sandstone (40%); same sand as above from 470 to 475 ft (40%); and white to tannish gray to light gray, slightly oolitic, finely crystalline, slightly silty to sandy, hard limestone (20%)	10	490
Same sandstone as above at 480 to 490 ft (75%); same sand as above at 470 to 475 ft (20%); same limestone as above at 480 to 490 ft (5%)	10	500
Light gray, very fine to medium, slightly pebbly, poorly sorted, hard, calcareous, silty sandstone (80%); same sand as above at 470 to 475 ft (15%); and same limestone as above at 480 to 490 ft (5%)	5	505
Medium to pebbly, angular to rounded (frosted) poorly sorted, pyritic, slightly ferruginous, silty, arkosic (gray, feldspar?), clear to white to greenish gray and tan, loose, mainly quartz sand with other grains of feldspar (?), limestone, dolomite, chert, and chlorite (90%); same sandstone as above at 500 to 505 ft (5%); and same limestone as above at 480 to 490 ft (5%); second good water sand - but bad odor from oil	5	510
Well ZK-58-19-803		
Owner: City of Georgetown Driller: Layne Texas Co.		
Topsoil	5	5
Clay and limestone	7	12
Blue shale and limestone	36	48
Limestone and shale breaks	23	71
Limestone	13	84
Limestone, lost returns	16	100
Hard, no returns	3	103
Porous - limestone	1.5	104.5

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-19-803—Continued		
No returns	3	107.5
Porous limestone	1.5	109
No returns	2	111
Porous limestone	1	112
Hard	1.5	113.5
Porous limestone	1.5	115
Hard	4	119
Porous limestone	3	122
Hard	2	124
Porous limestone	3	127
Hard	2	129
Porous limestone	10	139
Hard	10	149
Porous limestone	6	155
Hard	4	159
Porous limestone	27	186
Well ZK-58-19-804		
Owner: City of Georgetown Driller: Layne Texas Co.		
Topsoil	3	3
Clay	6	9
Limestone	61	70
Limestone, lost circulation	57	127
Porous limestone	12.67	139.67
Crack	.33	140
Limestone	18	158
Porous limestone	7	165
Hard limestone	10	175
Soft limestone	35	210
Well ZK-58-19-805		
Owner: City of Georgetown Driller: Layne Texas Co.		
Surface soil and gravel	12	12
Clay and lime	11	23
Hard lime	107	130
Lime and hard flint	45	175
Well ZK-58-19-809		
Owner: City of Georgetown Driller: Layne Texas Co.		
(Description of samples by F. W. Rolshausen)		
No record	37	37
Light gray, faintly glauconitic, chalky limestone *Oolina* sp. Ostracods Oysters *Globigerina wasitaensis* *Anomalina plummerae* *Lenticulina qualtina* Echinoid spines *Cyroidina* sp. *Textularia rioensis* *Lagina sulcata* *Globigerina cretacea*	33	70
No record	31	101
Like above, some chert	30	131
No record	93	224
Granular, cavernous, cherty limestone and some anhydrite *Orbitolina walnutensis* Round form Small, thin pelecypod Gastropod Miliolidae Ostracod Echinoid spines	31	255
Tan, granular limestone and hard, light gray, chalky limestone	31	286
Hard light tannish gray, chalky limestone with thin partings of brownish gray, marly shale	31	317
No record	30	347
Pale gray, fossiliferous marl and chalk *Eponides* sp. Echinoid spines Ostracods Oysters	30	377
Hard, light tannish gray, chalky limestone and some gray, fossiliferous, chalky marl	31	408
Like above, more fossils, trace of anhydrite *Lituola* sp.	31	439
Gray marl and slightly glauconitic marl; light gray slightly oolitic chalk; light tannish gray limestone; and a trace of anhydrite	32	471
Like above, also tan, granular, porous limestone	31	502

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-19-809—Continued		
Tan, porous, oolitic, millolid chalk; and tan, granular, chalky limestone *Haplophragmoides* sp. *Lituola* sp. *Haplosteche* sp. Miliolidae Gastropods Oysters Ostracods	29	531
Pale gray and tan, granular, porous limestone	31	562
No record	31	593
Light tannish gray and some pale gray, highly oolitic, fossiliferous chalk in places slightly recrystallized and trace of anhydrite *Orbitolina texana* (very scarce) *Haplootiche* sp. *Lituola* sp. Miliolidae Crinoid stems Echinoid spines Gastropods	30	623
No records	31	654
Like above No *orbitolina texana* observed	31	685
No record	31	716
Tan and pale brown, chalky to granular, oolitic limestone and trace of anhydrite *Miliolidae*	31	747
Tan brown and brownish gray, lightly chalky to granular, oolitic limestone and quite a few fragments of anhydrite *Orbitolina texana* (very scarce) Miliolidae Gastropods (casts) Pelecypods (casts) Oysters	30	777
No record	31	808
Like above *Orbitolina texana* (several)	31	839
Tan and pale gray, highly oolitic, chalky to granular limestone and trace of anhydrite *Rephax* sp. *Haplophragnoides* sp. Miliolidae *Orbitolina texana* (very scarce) Gastropods Pelecypods Oysters	30	869
Tan and pale gray, slightly chalky to granular, oolitic limestone	31	900
No record	30	930
Pale tannish gray, granular limestone with anhydrite included	30	960
Pale gray and tan, chalky to slightly granular, highly oolitic limestone and a trace of anhydrite *Rephax* sp. Haplophragmoides sp. *Orbitolina texana* (several) Gastropods Crinoids Echinoids Miliolidae Oysters	31	991
Like above, trace of chert as well as anhydrite *Orbitolina texana* (abundant)	32	1,023
No record	31	1,054
Tan, granular, faintly oolitic limestone; tan and light gray, chalky, oolitic limestone; and a trace of anhydrite *Orbitolina texana* (scarce) Echinoid spines Miliolidae Crinoid stems Ostracods Oysters	31	1,085
Tan and brown, granular, faintly oolitic limestone and some light gray, oolitic limestone and oolitic, chalky marl *Orbitolina texana* (several)	31	1,116
Tan, granular limestone; light gray, finely granular to chalky limestone; light gray, oolitic limestone; tan, porous, miliolid limestone; light gray, porous to cavernous limestone stained with dead oil; several fragments of anhydrite and an occasional fragment of sandy limestone; and gray, soft sandstone and gray shale *Orbitolina texana* (very scarce)	30	1,146
Light tannish gray, oolitic limestone and some anhydrite included and a few fragments of gray, silty sand, gray, sandy shale, and gray shale *Orbitolina texana* *Haplosteche* sp. *Haplophragmoides* sp. Miliolidae Gasptrpods Pelecypods Ostracods Echinoid spines Crinoid stems Oysters	31	1,177

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-19-809—Continued		
Gray shale; gray, coarse to fine-grained sand; tan, granular limestone; tan, oolitic limestone; gray, fine-grained, sandy shale; gray, oolitic, sandy limestone; and sandy marl and some anhydrite	31	1,208
Gray and tan, oolitic, finely granular, slightly sandy, and faintly glauconitic limestone; a few gray, limy, sandstone fragments; and a few fragments of shale and anhydrite *Orbitolina texana*	31	1,239
No record	31	1,270
Light tan, sandy, slightly glauconitic limestone; gray, slightly oolitic, slightly sandy limestone; light gray, medium to fine-grained sandstone; light gray, finely granular, slightly sandy limestone; and some anhydrite as included areas in the sandy limestone *Orbitolina texana*	31	1,301
Hard, tannish white, chalky limestone; a few pale greenish gray and light gray, finely granular, slightly sandy limestone; and a trace of shale, sandstone, and anhydrite	31	1,332
Light tannish gray sand; light tannish gray, slightly sandy limestone; hard, tannish white, faintly sandy limestone; a few oolitic limestone fragments; and a few fragments of gray and green shale and anhydrite	31	1,363
Like above, more light gray and white, finely granular limestone	30	1,393
Red, lavender, green, and gray shale and sandy shale; tan, pink, and light gray sandstone; white and pink limestone; and sandy limestone and a few gravel pebbles	31	1,424
No record	30	1,454
Light tannish gray sandstone; green, gray, and pink clay; light tannish gray and pink limestone and sandy limestone nodules and boulders, gravel; and gray, sandy clay	30	1,484
Conglomerate as above with more chert gravel; much of this lime and chert gravel is reworked from the Ellenberger section	31	1,515
Like above, less chert, gravel, and a few fragments of brown, green, buff, red, and gray, hard shale; a few of the gravel pebbles are made up of packsaddle schist	30	1,545
Dark gray, slighty carbonaceous shale, shale, and sandy shale; a few green, buff, and pink shale fragments; limestone nodules and boulders; chert; granite; schist; and limestone pebbles; chalky limestone; and some sand	31	1,576
No record	90	1,666
Dark gray, faintly carbonaceous and micaceous, indurated shale; and thin horizontal seams of siltstone; this core is dipping at about 78 degrees	4	1,670
Dark gray, slightly carbonaceous and slightly micaceous shale; gray, slightly carbonaceous, quartzitic sandstone; gravel pebbles; and lime boulders and nodules; some of the dark gray shale and sandstones show vertical quartz veining	28	1,698
Well ZK-58-21-202		
Owner: City of Granger Driller: J. L. Myers Sons		
Surface soil	7	7
Sand and gravel	8	15
Clay	87	102
Gumbo	38	140
Rock	418	558
Rock with shale breaks	113	671
Rock	62	733
Shale	57	790
Rock	30	820
Shale	60	880
Lime	110	990
Shale	10	1,000
Broken, sandy shale	24	1,024
Broken sand	15	1,039
Rock	5	1,044
Sand	12	1,056
Hard rock	4	1,060
Sandy shale	19	1,079
Hard lime	2	1,081
Lime	38	1,119
Rock	27	1,146
Lime	283	1,429

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-21-202—Continued		
Lime with shale breaks	176	1,603
Hard lime	19	1,624
Rock with shale breaks	79	1,703
Hard lime	14	1,717
Rock	90	1,807
Shale	25	1,832
Rock	160	1,992
Sand	20	2,012
Sandy shale	39	2,051
Shale	10	2,061
Lime and shale	41	2,102
Sandy shale	21	2,123
Rock	43	2,166
Lime	6	2,172
Shale	40	2,212
Lime	38	2,250
Sandstone	81	2,331
Sand	78	2,409
Lime	10	2,419
Rock	81	2,500
Sand	22	2,522
Hard rock	16	2,538
Soft rock	28	2,566
Hard rock	12	2,578
Hard sand	29	2,607
Well ZK-58-21-203		
Owner: City of Granger Driller: J. L. Myers Sons		
Surface soil	4	4
Clay and sand	56	60
Shale	165	225
Lime and shale	166	391
Broken lime	369	760
Lime	256	1,016
Sand and shale	79	1,095
Lime	795	1,890
Broken shale	185	2,075
Broken lime	344	2,419
Well ZK-58-21-201—Continued		
Sand	96	2,515
Sand, broken with lime streaks	75	2,590
Hard lime	16	2,606
Well ZK-58-27-801		
Owner: City of Round Rock Driller: Miles Robertson		
Del Rio clay	20	20
Georgetown lime	125	145
Edwards lime	77	222
Well ZK-58-28-602		
Owner: City of Hutto Driller: Sterzing Drilling Co.		
Black surface	4	4
Hard white caliche	38	42
Blue, Taylor chalk	28	70
Austin Chalk	345	415
Eagle Ford clay	65	480
Buda lime	25	505
Del Rio Clay	80	585
Georgetown lime	98	683
Edwards lime	104	787
Well ZK-58-29-602		
Owner: City of Taylor Driller: Lanning and Coffield Drilling Co.		
Surface	10	10
Taylor Marl	188	198
Pecan Gap lime	32	230
Chalky lime	290	520
Chalk	380	900
Eagle Ford Shale	60	960
Buda lime	50	1,010
Del Rio Clay	50	1,060
Georgetown lime	176	1,236
Edwards lime, sulfur water	314	1,550
Comanche Peak lime	60	1,610
Walnut blue clay	10	1,620
Alternate lime with layers of shale, Glen Rose	830	2,450

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-29-602—Continued		
Travis Peak	250	2,700
Hard sand rock	15	2,715
Trinity sand and water, flows water	593	3,308
Well ZK-58-29-603		
Owner: City of Taylor Driller: Layne Texas Co.		
Fill	15	15
Yellow clay	25	40
Blue shale	135	175
Shale	63	238
Shale	91	329
Shale	147	476
Chalky shale	49	525
Chalk	377	902
Shale	5	907
Chalk and shale	101	1,008
Chalk and shale	22	1,030
Shale and lime shells	30	1,060
Shale and lime	32	1,092
Shale and lime	51	1,143
Hard lime	131	1,274
Lime	68	1,342
Soft lime	14	1,356
Lime	12	1,368
Soft lime	20	1,388
Lime	20	1,408
Hard lime	62	1,470
Lime	32	1,502
Lime, layers shale	24	1,526
Lime	88	1,614
Lime and shale	11	1,625
Lime	28	1,653
Lime and shale	31	1,684
Lime	420	2,104
Shale and lime	8	2,112
Shale and lime	21	2,133
Lime	167	2,300
Shale and lime	10	2,310
Lime	1	2,311
Hard lime	10	2,321
Soft lime	31	2,352
Lime	93	2,445
Lime	22	2,467
Shale and lime	103	2,570
Sand, soft lime	15	2,585
Sandy shale	26	2,611
Sand and shale	10	2,621
Sandy lime	62	2,683
Lime and soft lime	37	2,720
Lime and shale	7	2,727
Lime and shale	12	2,739
Sand, sandy shale	26	2,765
Shale	15	2,780
Green shale	17	2,797
Sand and shale	15	2,812
Sand and shale	5	2,817
Shale	4	2,821
Sand	44	2,865
Shale	25	2,890
Soft shale	60	2,950
Shale	10	2,960
Sand, layers shale	12	2,972
Shale	15	2,987
Sand and shale	46	3,033
Sand, shale and lime	15	3,048
Shale	7	3,055
Sand	10	3,065
Shale	8	3,073
Shale	29	3,102
Shale	5	3,107
Sand	12	3,119
Shale	8	3,127
Sand	20	3,147
Sand, shale and lime	25	3,172

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-29-603—Continued		
Shale	5	3,177
Soft shale and lime	10	3,187
Shale and lime	8	3,195
Sandy shale	5	3,200
Shale	9	3,209
Shale	1	3,210
Shale and lime	3	3,213
Sandy lime	29	3,242
Shale	12	3,254
Sand	4	3,258
Sand	15	3,273
Sand	17	3,290
Shale, sandy	8	3,298
Sand, shale, soft lime	7	3,305
Soft lime	16	3,321
Shale and lime	8	3,329
Shale	6	3,335

Well ZK-58-29-604

Owner: City of Taylor
Driller: Layne Texas Co.

Surface	3	3
Clay and gravel	5	8
Clay	26	34
Gray shale	195	229
Gray shale and gravel	101	330
Gray shale	204	534
Chalk	66	600
Lime and chalk	23	623
Chalk	375	998
Shale	14	1,012
Lime and shale	153	1,165
Lime	721	1,886
Lime and shale	24	1,910
Lime	291	2,201
Sandy lime	75	2,276
Lime	267	2,543
Lime and shale	159	2,702
Sandy shale	20	2,722

	THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-29-604—Continued		
Sandy lime	17	2,739
Sandy lime and shale	157	2,896
Sand and shale streaks	14	2,910
Sandy lime	9	2,919
Lime	7	2,926
Sandy lime	27	2,953
Sandy lime and shale	113	3,066
Sandy lime (hard)	32	3,098
Sandy lime	9	3,107
Sand and shale streaks	23	3,130
Sandy lime	31	3,161
Sandy lime and shale	107	3,268
Sandy lime	20	3,288
Sandy shale	12	3,300
Lime	6	3,306
Sandy lime	39	3,345
Red shale	11	3,356

Well ZK-58-29-605

Owner: Taylor Bedding Co.
Driller: Layne Texas Co.

Surface soil	5	5
Yellow clay	40	45
Blue shale	12	57
Light and blue-gray marl	338	395
Gray marl	160	555
Gray shale and chalk	108	663
Shale and chalk	46	709
Lime and shale	63	772
Chalk and shale	241	1,013
Shale (black)	51	1,064
Lime	61	1,125
Hard lime	4	1,129
Blue shale	41	1,170
Lime and shale	37	1,207
Lime	95	1,302
Soft, brown lime	69	1,371
Brown and white lime	44	1,415
Hard lime	73	1,488

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-29-605—Continued		
Lime	775	2,263
Sandy lime	53	2,316
Lime	14	2,330
Sandy lime and lime	85	2,415
Lime	89	2,504
Blue shale and lime	42	2,546
Hard lime	30	2,576
Blue shale and lime	54	2,630
Fine lime and sand	30	2,660
Blue shale and lime	60	2,720
Blue shale	48	2,768
Sand, layers shale	23	2,791
Sand	67	2,858
Sand, layers shale	121	2,979
Sand, hard layers shale and lime	72	3,051
Hard shale and lime	30	3,081
Sand	32	3,113
Hard shale and lime	12	3,125
Sand, hard layers shale	88	3,213
Sand	22	3,235
Hard shale and lime	15	3,250
Sand, layers shale	15	3,265
Sand	25	3,290
Shale	8	3,298
Layers shale and sand	31	3,329
Sand, layers red, blue, and green shale	13	3,342
Hard, red, blue, and black shale	11	3,353
Well ZK-58-35-103		
Owner: Austin White Lime Co. Driller: Sterzing Drilling Co.		
Topsoil	12	12
Fault	42	54
White lime	26	80
Well ZK-58-35-204		
Owner: City of Round Rock Driller: Smith and Bradshaw		
Surface formation	25	25
Del Rio formation	75	100
Georgetown formation	140	240
Edwards formation	100	340
Glen Rose formation	30	370

WILLIAMSON COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

Well ZK-58-10-201

Owner: City of Florence

DATE	WATER LEVEL
Aug. 30, 1966	297.3
Mar. 13, 1968	294.40
Mar. 5, 1969	297.3

Well ZK-58-10-202

Owner: City of Florence

DATE	WATER LEVEL
Mar. 17, 1966	278.15
Aug. 30, 1966	293.5
Sept. 28, 1966	309.0
Nov. 3, 1966	292.2
Nov. 23, 1966	290.14
Mar. 24, 1967	295.75
May 4, 1967	303.46
June 8, 1967	306.45
Nov. 9, 1967	302.2
Dec. 8, 1967	304.09
Feb. 16, 1968	295.29
Mar. 13, 1968	289.96
May 7, 1968	292.36
Mar. 5, 1969	293.7

Well ZK-58-10-702

Owner: J. D. Morgan

DATE	WATER LEVEL
Mar. 17, 1966	167.2
Mar. 27, 1967	179.2
Mar. 3, 1969	180.2

Well ZK-58-11-801

Owner: Hartwin H. Holmstrom

DATE	WATER LEVEL
Nov. 1948	110
Mar. 20, 1968	181.43
Mar. 5, 1969	181.90

Well ZK-58-12-404

Owner: F. J. Viktorin

DATE	WATER LEVEL
May 12, 1967	260.13
Mar. 19, 1968	243.50
June 14, 1968	253.81
Mar. 5, 1969	252.9

Well ZK-58-12-405

Owner: Felix Schwertner

DATE	WATER LEVEL
Sept. 7, 1949	273.03
Nov. 28, 1949	273.66
Apr. 13, 1950	273.26
Aug. 4, 1950	276.50
Dec. 5, 1950	276.25
Jan. 5, 1951	281.31
Apr. 9, 1951	278.01
Aug. 10, 1951	276.88
Jan. 7, 1952	277.71
Apr. 8, 1952	278.85
Aug. 12, 1952	273.64
Sept. 3, 1952	279.17
Dec. 18, 1952	278.75
Aug. 7, 1953	273.10
Dec. 15, 1953	272.71
Apr. 20, 1954	273.17
Aug. 10, 1954	275.55
Dec. 28, 1954	278.12
Mar. 14, 1955	276.43
July 18, 1955	276.58
Mar. 16, 1956	277.32
July 19, 1956	278.04
Sept. 4, 1956	283.03
Nov. 12, 1956	278.37
Jan. 9, 1957	279.32
Mar. 19, 1957	278.55

Well ZK-58-12-405—Continued

DATE	WATER LEVEL
May 15, 1957	275.83
Nov. 27, 1957	269.33
Nov. 18, 1958	270.24
Dec. 18, 1959	269.69
Oct. 19, 1961	262.10
Oct. 7, 1964	273.07
Mar. 17, 1966	258.48
Mar. 27, 1967	273.34
Oct. 4, 1967	273.54
Mar. 19, 1968	258.81
Mar. 17, 1969	264.62

Well ZK-58-12-601

Owner: Adolph Schwertner

DATE	WATER LEVEL
Aug. 7, 1940	200
May 12, 1967	61.12
Mar. 19, 1968	62.61
Mar. 17, 1969	62.70

Well ZK-58-13-503

Owner: City of Bartlett

DATE	WATER LEVEL
Mar. 15, 1958	50
Feb. 9, 1965	85
Mar. 22, 1966	90.93
Aug. 31, 1966	89.45
Sept. 28, 1966	89.40
Mar. 19, 1968	93.54
Apr. 2, 1969	101.6

Well ZK-58-17-802

Owner: Wilson Parks

DATE	WATER LEVEL
Mar. 17, 1966	196.45
Mar. 23, 1967	202.7
Mar. 4, 1969	201.4

Table 4.—Water Levels in Selected Wells in Williamson County—Continued

Well ZK-58-18-701

Owner: Col. Sims

DATE	WATER LEVEL
Mar. 21, 1966	160.2
Aug. 30, 1966	167.1
Sept. 28, 1966	165.3
Nov. 3, 1966	165.8
Nov. 22, 1966	165.8
Dec. 29, 1966	170.4
Mar. 23, 1967	169.1
May 4, 1967	170.3
June 8, 1967	174.0
June 30, 1967	175.8
Sept. 15, 1967	178.4
Oct. 4, 1967	183.0
Jan. 16, 1968	174.80

Well ZK-58-19-301

Owner: James Chrislip

DATE	WATER LEVEL
Sept. 7, 1949	100.27
Nov. 28, 1949	99.64
Dec. 5, 1950	99.91
Apr. 9, 1951	100.21
Aug. 10, 1951	102.49
Apr. 8, 1952	103.06
Aug. 12, 1952	99.76
Sept. 3, 1952	101.66
Dec. 18, 1952	102.82
Apr. 15, 1953	94.51
Aug. 7, 1953	98.40
Dec. 15, 1953	94.69
Apr. 20, 1954	103.24
Aug. 10, 1954	102.49
Dec. 28, 1954	107.14
Mar. 14, 1955	103.70
July 18, 1955	102.68
Nov. 10, 1955	104.74
Mar. 16, 1956	107.07
July 19, 1956	108.46
Sept. 4, 1956	109.20

Well ZK-58-19-301—Continued

DATE	WATER LEVEL
Nov. 12, 1956	106.99
Jan. 9, 1957	107.44
Mar. 19, 1957	107.61
May 15, 1957	97.42
July 18, 1957	92.68
Mar. 17, 1958	70.85
May 19, 1958	84.80
July 15, 1958	90.21
Nov. 18, 1958	93.35
May 14, 1959	93.57
Oct. 12, 1960	95.24
Sept. 12, 1963	104.53
Oct. 7, 1964	97.60
Oct. 6, 1965	96.45
Mar. 16, 1966	68.2
Oct. 5, 1966	91.04
Mar. 27, 1967	91.51
Oct. 3, 1967	97.02
Oct. 14, 1968	92.05
Mar. 17, 1969	94.4

Well ZK-58-19-604

Owner: A. G. Braun

DATE	WATER LEVEL
Mar. 16, 1966	1.60
Mar. 27, 1967	14.82
Apr. 2, 1969	4.34

Well ZK-58-19-605

Owner: A. G. Braun

DATE	WATER LEVEL
Jan. 9, 1957	27.18
Mar. 19, 1957	27.19
May 15, 1957	12.95
July 18, 1957	8.29
Nov. 27, 1957	2.87
Mar. 19, 1958	+ .15
May 19, 1958	4.26
July 15, 1958	8.70
May 14, 1959	12.93
Dec. 18, 1959	6.77

Well ZK-58-19-605—Continued

DATE	WATER LEVEL
Oct. 12, 1960	15.77
Jan. 17, 1961	6.01
Sept. 24, 1962	11.63
Sept. 12, 1963	17.74
Oct. 7, 1964	15.31
Oct. 5, 1965	6.27
Mar. 16, 1966	.8
Oct. 5, 1966	7.13
Mar. 27, 1967	13.29
Oct. 3, 1967	17.03
Oct. 14, 1968	10.62
Apr. 2, 1969	3.65

Well ZK-58-19-803

Owner: City of Georgetown

DATE	WATER LEVEL
May 15, 1952	88
July 28, 1956	102
Mar. 16, 1966	68.2
Aug. 30, 1966	74.23
Sept. 28, 1966	73.93
Nov. 23, 1966	76.16
Dec. 28, 1966	77.96
Mar. 27, 1967	82.12
Mar. 19, 1968	66.70
Apr. 2, 1969	75.25

Well ZK-58-20-102

Owner: Walter Jacobs

DATE	WATER LEVEL
1957	230
Mar. 18, 1966	211.03
Mar. 24, 1967	215.0
Mar. 17, 1969	212.14

Well ZK-58-20-401

Owner: Mrs. J. E. Smith

DATE	WATER LEVEL
Mar. 21, 1941	32
Mar. 16, 1966	39.68
Mar. 27, 1967	46.03
Mar. 17, 1969	51.95

Table 4.—Water Levels in Selected Wells in Williamson County—Continued

DATE	WATER LEVEL
Well ZK-58-20-901	
Owner: Ansel Holmstrom	
1953	Flowed
Mar. 23, 1966	Flowed
May 9, 1966	+ 18.5
May 23, 1967	+ 15.0
Mar. 19, 1968	+ 14.36
Mar. 18, 1969	+ 21.29
Well ZK-58-21-202	
Owner: City of Granger	
1960	28
Jan. 7, 1965	69.00
Mar. 21, 1966	72.4
Mar. 23, 1967	74.60
Mar. 19, 1968	76.10
Mar. 18, 1969	79.31
Well ZK-58-26-401	
Owner: Leander School	
May 8, 1954	150
Mar. 24, 1967	220.7
Mar. 20, 1968	225.00
Well ZK-58-26-705	
Owner: Texas Quarries	
Mar. 21, 1966	383.25
Mar. 23, 1967	390.75
Mar. 4, 1969	416.75
Well ZK-58-27-101	
Owner; Doc Weir	
May 1965	330
Feb. 1967	200
Mar. 24, 1967	247.19
Apr. 2, 1969	137.5
Well ZK-58-27-202	
Owner: Texas Crushed Stone Co.	
1959	130
Mar. 18, 1966	92.38
Mar. 23, 1967	96.02
Apr. 2, 1969	94.92
Well ZK-58-27-504	
Owner: —Hoppy	
Aug. 7, 1950	97.40
Dec. 6, 1950	98.98
Jan. 5, 1951	97.76
Apr. 9, 1951	97.32
Aug. 10, 1951	99.32
Apr. 8, 1952	99.08
Aug. 12, 1952	99.55
Dec. 18, 1952	100.97
Apr. 15, 1953	100.90
Aug. 7, 1953	99.43
Dec. 15, 1953	98.35
Apr. 20, 1954	99.17
Dec. 28, 1954	99.49
Mar. 14, 1955	92.54
July 18, 1955	105.46
Nov. 10, 1955	99.62
Mar. 16, 1956	99.64
July 19, 1956	100.06
Sept. 4, 1956	100.86
Nov. 12, 1956	99.50
Jan. 9, 1957	99.69
Mar. 19, 1957	99.90
May 15, 1957	93.43
July 18, 1957	84.35
Nov. 27, 1957	72.75
May 19, 1958	62.86
July 15, 1958	67.09
Nov. 18, 1958	71.05
May 14, 1959	81.06
Dec. 18, 1959	83.37
Jan. 16, 1961	76.89
Sept. 25, 1962	88.90
Sept. 12, 1963	98.27
Oct. 5, 1965	80.85
Mar. 18, 1966	72.9
Mar. 23, 1967	96.22
Oct. 4, 1967	93.17
Oct. 14, 1968	73.30
Apr. 2, 1969	77.18
Well ZK-58-27-801	
Owner: City of Round Rock	
1957	40
Jan. 17, 1961	Flowed
Oct. 24, 1964	32
Mar. 18, 1966	3.0
Mar. 23, 1967	24.5
Apr. 2, 1969	4
Well ZK-58-27-901	
Owner: Frank Anderson	
Jan. 19, 1961	36
Mar. 22, 1966	48.21
Aug. 31, 1966	51.95
Sept. 27, 1966	53.92
Nov. 3, 1966	59.83
Nov. 23, 1966	64.86
Dec. 29, 1966	77.93
May 4, 1967	73.26
June 9, 1967	73.13
Sept. 15, 1967	73.42
Oct. 4, 1967	73.15
Nov. 9, 1967	73.30
Dec. 8, 1967	73.16
Jan. 15, 1968	62.60
Feb. 7, 1968	36.94
Mar. 13, 1968	25.59
Apr. 1, 1969	60.66

Table 4.—Water Levels in Selected Wells in Williamson County—Continued

DATE	WATER LEVEL
Well ZK-58-27-902	
Owner: E. C. Overall	
Mar. 1956	52
Mar. 16, 1966	21.4
Mar. 23, 1967	41.31
Apr. 1, 1969	24.89
Well ZK-58-28-601	
Owner: City of Hutto	
July 10, 1940	66
Mar. 22, 1966	21.58
Mar. 23, 1967	67.11
Sept. 17, 1968	Flowed
Mar. 17, 1969	42.60
Well ZK-58-29-602	
Owner: City of Taylor	
Sept. 1934	+ 92
Feb. 1941	+ 56
1960	14
Jan. 8, 1965	57.8
Mar. 21, 1966	58.13
Well ZK-58-29-602—Continued	
Aug. 31, 1966	65.65
Sept. 28, 1966	60.51
Nov. 3, 1966	58.37
Dec. 30, 1966	64.7
Mar. 24, 1967	59.5
May 5, 1967	58.6
June 9, 1967	64.55
June 30, 1967	72.62
Oct. 4, 1967	64.53
Nov. 10, 1967	63.80
Dec. 13, 1967	64.60
Jan. 12, 1968	66.85
Feb. 8, 1968	64.02
Mar. 13, 1968	67.90
Mar. 18, 1969	67.09
Well ZK-58-29-603	
Owner: City of Taylor	
Aug. 18, 1946	+ 51
1959	7
Sept. 1964	44
Well ZK-58-29-603—Continued	
Jan. 8, 1965	37.90
Mar. 21, 1966	40.57
Aug. 30, 1966	47.03
Sept. 28, 1966	42.10
Nov. 23, 1966	49.27
Dec. 28, 1966	45.3
Mar. 24, 1967	42.3
Mar. 19, 1968	45.95
Mar. 18, 1969	49.49
Well ZK-58-29-604	
Owner: City of Taylor	
Feb. 19, 1954	Flowed
1960	29
Jan. 8, 1965	26.3
Mar. 21, 1966	25.9
Mar. 19, 1968	30.39
Mar. 18, 1969	34.23

Table 5.--Chemical Analyses of Water From Selected Wells in Central Texas

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Khe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
1/ ZK-58-10-201	685	May 2, 1939	Khe	--	--	34	17	* 164	--	366	111	66	1.4	--	--	573	--	156	70	--	--	5.8
201	685	Feb. 25, 1955	do.	10	0.2	30	17	158	--	360	95	67	1.1	< 0.4	--	520	556	145	70	--	7.8	5.7
202	728	May 3, 1960	do.	--	.11	30	19	134	--	359	91	63	1.2	< .4	--	558	516	155	66	931	7.6	4.7
202	728	June 7, 1966	do.	--	< .02	27	20	126	36	348	87	58	1.2	< .4	--	700	527	152	58	956	7.7	4.5
2/ 204	857	Apr. 30, 1968	do.	--	3.6	12	10	200	--	365	100	74	--	--	--	600	579	71	86	--	7.8	10.4
2/ 204	857	do.	Khe, Kho	--	2.8	10	6	285	--	400	70	187	--	--	--	800	758	48	93	--	7.7	17.5
702	630	Sept. 18, 1968	Kgr, Ktp	14	< .02	113	75	95	--	367	397	67	2.2	.5	--	940	--	590	26	1,410	7.4	1.7
1/ 12-401	615	June 11, 1940	Kea	--	--	78	26	* 12	--	342	16	16	.6	8.8	--	326	--	301	8	--	--	.3
1/ 401	615	Mar. 20, 1941	do.	--	--	78	26	* 12	--	342	12	16	.6	8.8	--	330	321	301	8	--	--	.3
404	400	June 6, 1966	do.	--	.12	74	23	12	--	312	15	18	.6	14	--	469	310	280	9	594	7.6	.3
1/ 601	1,041	Aug. 7, 1940	do.	--	--	38	19	* 228	--	372	163	136	--	--	--	767	--	172	74	--	--	7.5
1/ 601	1,041	do.	do.	--	--	34	19	* 292	--	378	202	184	5.4	3.5	--	926	--	162	80	--	--	9.9
601	1,041	Feb. 28, 1955	do.	27	3.4	30	17	296	--	390	205	181	.1	4	--	968	956	145	82	--	7.8	10.7
1/ 13-501	1,320	Feb. 5, 1941	do.	13	.08	17	15	* 632	--	432	542	360	7.2	.0	--	1,806	--	104	93	--	8.5	27.0
502	1,595	Feb. 13, 1939	do.	16	.45	28	16	* 561	--	494	434	310	3.4	< .4	--	1,665	1,613	136	90	--	8.0	20.9
1/ 502	1,595	Feb. 5, 1941	do.	16	.10	19	10	* 562	--	490	449	300	7	.0	--	1,613	--	88	93	--	7.8	26.0
502	1,595	May 17, 1949	do.	27	.3	37	17	* 607	--	488	549	362	8	< .4	--	1,900	1,848	163	89	--	8.1	20.6
502	1,595	Feb. 12, 1964	do.	--	.22	10	3	445	--	476	254	266	3.7	< .4	--	1,460	1,217	37	96	2,313	8.1	31.2
503	2,617	Mar. 18, 1958	Kho	--	.4	9	3	409	--	476	236	255	3	< .4	--	1,347	1,149	37	96	2,245	7.8	30.2
503	2,617	Feb. 12, 1964	do.	--	.2	9	4	445	--	468	246	266	3.4	< .4	--	1,440	1,204	37	96	2,310	8.0	30.7
3/ 503	2,617	Mar. 12, 1965	do.	--	.22	23	8	430	--	467	227	265	3	--	--	1,423	1,186	90	91	--	8.2	19.7
17-301	108	Dec. 1966	Kgr	11	--	64	72	194	38	366	417	109	5.7	< .4	--	1,090	--	454	46	1,610	8.0	3.9
301	334	Jan. 1967	Kgr, Ktp	11	--	74	87	209	44	434	473	125	5.5	< .4	--	1,240	--	540	43	1,800	8.4	3.9
301	420	Feb. 9, 1967	do.	12	.02	65	66	172	35	366	381	102	4.5	< .4	5.3	1,020	--	436	44	1,600	7.5	3.6
801	450	Mar. 1955	Kgr, Khe	--	.38	56	26	* 97	--	290	55	78	.6	.4	--	500	456	247	46	--	7.7	2.7
803	450	Feb. 15, 1965	Khe	--	.02	129	67	54	30	336	196	83	1.1	192	--	1,090	917	600	16	1,640	7.7	.9

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
1/ ZK-58-17-803	450	Mar. 10, 1965	Khe	--	0.26	59	30	81	--	338	55	75	0.6	< 0.4	--	640	467	272	39	944	7.4	2.1
18-401	220	Feb. 9, 1967	Kgr	9	--	68	72	155	--	356	329	123	5	< .4	--	940	--	468	42	1,500	7.7	3.1
401	220	do.	do.	9	--	125	40	161	--	334	355	126	4.6	< .4	--	990	--	475	42	1,500	7.8	3.2
401	445	Feb. 18, 1967	Kgr, Khe	8	--	63	62	163	48	361	347	126	4.8	< .4	--	1,000	--	412	43	1,550	7.9	3.5
401	450	Mar. 10, 1967	do.	26	--	38	3	127	42	--	151	104	1.6	< .4	--	550	--	106	63	1,079	11.0	5.3
401	510	Mar. 11, 1967	Ktp	22	--	19	21	121	43	220	122	100	1.4	< .4	--	560	--	134	58	879	8.5	4.5
401	510	May 17, 1967	do.	26	.16	12	14	153	43	13	224	110	1.6	7	3	620	600	87	70	1,050	9.0	7.1
401	510	do.	do.	16	.16	47	23	111	22	356	56	92	1	< .4	.9	540	--	210	50	906	7.7	3.3
1/ 501	539	July 8, 1940	Kgr, Khe	--	--	33	21	* 165	--	354	70	113	1.2	< 20	--	577	--	168	68	--	--	5.5
501	539	Jan. 27, 1969	do.	13	.04	69	49	186	--	344	260	152	2.5	2.6	3.6	900	--	375	52	1,440	7.8	2.2
1/ 19-501	40	Feb. 22, 1951	Kca	9.9	--	81	33	* 7	--	386	6.8	10	--	4	--	357	342	338	4	744	7.4	.2
501	40	Aug. 16, 1966	do.	--	.04	110	19	9	--	383	13	26	.3	21	--	580	386	353	5	--	7.4	.2
1/ 601	100	Jan. 17, 1961	do.	11	.0	99	15	9.8	1.1	326	15	18	.4	29	--	358	--	308	6	623	6.9	.2
2/ 803	186	--	do.	--	.04	100	20	10	--	344	17	19	.1	--	--	--	--	335	6	--	7.4	.2
803	186	Oct. 7, 1959	do.	--	.08	101	20	* 10	--	337	23	27	.1	26	--	411	373	335	6	685	7.4	.2
803	186	Dec. 14, 1960	do.	--	.03	28	12	17	--	16	46	33	.2	49	--	205	193	122	24	342	8.7	.7
803	186	Aug. 16, 1966	do.	--	.02	112	20	16	--	353	27	28	.3	36	--	590	413	363	9	--	7.2	.4
804	210	May 14, 1952	do.	15	.08	97	19	* 16	--	348	27	25	.1	--	--	407	370	320	10	--	8.0	.4
804	210	Dec. 14, 1960	do.	--	.04	96	22	10	--	351	19	19	.2	22	--	393	361	330	6	655	7.2	.2
804	210	Aug. 16, 1966	do.	--	.10	107	16	10	--	355	17	18	.4	23	--	550	367	336	6	--	7.3	.2
2/ 805	175	June 24, 1946	do.	8	.1	104	16	* 16.2	--	383.1	17	20	--	--	--	592	369	326	9	639	7.18	.4
805	175	Oct. 9, 1957	do.	--	.4	96	22	* 8	--	354	--	--	--	--	--	397	--	330	5	661	7.1	.2
805	175	Dec. 14, 1960	do.	--	.76	102	18	8	--	342	16	12	.2	27	--	392	352	330	5	654	7.0	.2
805	175	Aug. 16, 1966	do.	--	.10	103	19	7	--	357	12	15	.3	21	--	530	353	336	4	--	7.3	.2
2/ 809	1,698	June 29, 1946	--	10	.1	56.4	26.2	59.1	--	259.8	89.6	47	--	--	--	584.1	417	248.8	34	--	7.5	1.6
1/ 20-101	590	Aug. 2, 1940	Kea	--	--	34	22	* 88	--	305	46	47	3.8	--	--	396	--	173	53	--	--	2.9
102	603	Jan. 14, 1966	do.	--	.08	38	24	78	--	294	50	38	3.6	< .4	--	530	377	194	47	736	7.9	2.4
1/ 401	412	July 30, 1940	do.	--	--	51	25	* 107	--	323	94	64	3.9	--	--	504	--	231	50	--	--	3.1
1/ 901	745	May 20, 1956	Kea	--	--	--	--	* 650	--	552	--	475	--	--	2.2	--	--	78	95	2,940	8.0	--
901	745	Sept. 17, 1968	do.	17	.28	16	17	630	--	560	335	489	5.2	< .4	--	1,780	--	110	93	2,820	8.0	26.1
1/ 21-201	2,531	Feb. 5, 1941	Kho	17	.24	18	8.3	* 523	--	452	359	330	2.7	--	--	1,491	--	79	94	--	7.9	25.6
203	2,606	Sept. 17, 1968	do.	18	.58	23	9	491	--	451	305	335	3	< .4	--	1,410	--	93	92	2,250	7.9	22.0
1/ 26-401	780	May 8, 1954	Ktp	17	1.3	66	85	* 86	--	374	297	51	4.4	2.5	--	849	794	514	27	1,240	7.6	1.6
1/ 701	1,185	Mar. 26, 1949	do.	10	--	156	61	* 562	--	390	194	950	--	1.2	4.6	2,130	--	640	66	3,910	--	9.7

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS: REPORTED	DISSOLVED SOLIDS: RECALCULATED	TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
1/ ZK-58-26-702	700	Sept. 10, 1951	Kgr, Khe	12	--	70	80	* 95	--	454	252	42	5	3	--	791	--	504	29	1,260	8.9	1.8
703	930	Sept. 19, 1968	Ktp	13	.16	62	55	364	--	416	251	423	4.1	1	--	1,380	--	380	68	2,310	7.5	8.1
27-101	1,224	Aug. 28, 1964	Kho	--	--	18	45	--	--	--	--	1,640	--	--	--	--	--	232	--	--	--	--
101	1,224	Sept. 17, 1968	do.	12	2.04	190	121	620	--	426	1,510	329	4.5	< .4	--	3,000	--	970	58	3,840	7.4	8.6
4/ 505	225	June 3, 1966	Kea	--	--	--	--	--	--	--	--	8.9	--	--	--	--	--	--	--	706	--	--
801	222	Oct. 19, 1939	do.	9	.02	99	19	* 42	--	436	23	18	< .4	11	--	424	435	--	20	--	7.7	.9
1/ 801	222	Mar. 30, 1941	do.	--	.02	109	23	* 6.7	--	374	40	15	.2	14	--	392	--	367	4	--	--	.2
802	220	Sept. 12, 1957	do.	--	< .02	102	23	12	--	366	30	23	.3	20	--	443	390	350	7	738	7.2	.3
1/ 901	425	July 25, 1956	do.	--	--	--	--	--	--	313	--	29	--	--	--	--	--	280	--	625	7.6	--
1/ 902	504	do.	do.	--	--	--	--	--	--	299	61	29	--	7.7	--	--	--	265	--	802	7.7	--
1/ 28-601	790	July 11, 1940	do.	--	--	21	12	* 527	--	494	391	302	4.2	--	--	1,500	--	103	92	--	--	22.7
1/ 601	790	Oct. 1951	do.	18	.14	17	12	* 534	--	495	384	308	4.4	.5	--	1,520	--	92	93	2,460	7.7	24.2
601	790	Sept. 17, 1968	do.	17	.30	16	9	530	--	482	412	310	4.4	< .4	--	1,540	--	77	94	2,380	7.8	26.2
29-501	1,115	July 30, 1969	do.	5	--	31	4	331	--	276	282	187	4.4	< .4	--	980	--	93	89	1,580	7.9	14.9
1/ 602	3,308	Feb. 3, 1941	Kho	21	.27	15	5.2	* 464	--	462	349	225	2.8	.0	--	1,310	--	59	94	--	7.9	26.2
602	3,308	Nov. 17, 1942	do.	27	.72	24	8	* 448	--	453	353	230	2.2	< .4	--	1,307	--	93	91	--	8.0	20.3
602	3,308	July 28, 1948	do.	25	.88	22	6	* 457	--	454	368	225	2.3	< .4	--	1,300	1,330	80	93	--	7.7	22.3
602	3,308	Nov. 24, 1953	do.	36	.2	14	9	466	--	458	370	231	1.8	< .4	--	1,420	1,354	72	93	--	7.9	23.8
602	3,308	Feb. 17, 1960	do.	--	.84	14	6	460	--	442	360	212	2.9	< .4	--	1,344	1,273	60	94	2,240	8.1	26.0
602	3,308	July 30, 1964	do.	--	.28	15	5	462	--	450	370	208	3.7	< .4	--	1,510	1,287	58	95	2,387	8.0	26.4
602	3,308	Oct. 19, 1965	do.	--	.04	13	6	471	--	446	345	245	2.1	< .4	--	1,520	1,302	58	95	2,343	8.1	27.3
3/ 603	3,335	Sept. 19, 1946	do.	9	.1	17.3	4.4	* 451.5	--	444.1	401.4	180	--	--	--	1,538	1,282	61.3	94	--	7.7	25.2
3/ 603	3,335	Sept. 20, 1946	do.	6	.5	15.3	3.1	* 458.2	--	450.2	313	236	--	--	--	1,513.2	1,253	51	95	--	8.0	28.1
603	3,335	July 28, 1948	do.	27	.96	22	6	* 436	--	417	330	243	2.1	< .4	--	1,294	1,273	80	92	--	7.1	21.3
603	3,335	Feb. 17, 1960	do.	--	.4	14	5	470	--	444	310	252	2.8	< .4	--	1,368	1,273	53	94	2,280	8.0	26.2
603	3,335	July 28, 1964	do.	--	< .02	13	5	473	--	459	334	239	3.7	< .4	--	1,530	1,294	53	95	2,409	8.0	28.2
3/ 604	3,356	Feb. 27, 1954	do.	14	.4	18	3	484	--	476	324	260	--	--	--	1,633	1,337	57	95	--	7.95	27.7
3/ 604	3,356	Mar. 2, 1954	do.	12	.4	17	3	474	--	451	325	252	--	--	--	1,586.6	1,305	55	95	--	8.0	27.9
604	3,356	Feb. 17, 1960	do.	--	.22	14	5	470	--	439	310	250	2.8	< .4	--	1,356	1,269	53	95	2,260	7.7	27.6
1/ 604	3,356	Mar. 1, 1960	do.	24	.11	18	1.9	455	5.8	452	341	230	3.2	.0	--	1,300	--	53	94	2,140	8.1	27.1
604	3,356	July 28, 1964	do.	--	.08	13	5	481	--	453	324	253	3.9	< .4	--	1,530	1,303	54	95	2,431	8.0	28.7

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO_2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO_3)	SULFATE (SO_4)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO_3)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS $CaCO_3$	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
ZK-58-35-204	370	July 14, 1965	Kea	--	< 0.02	96	25	9	--	375	27	16	0.9	5.5	--	560	364	343	5	711	7.3	0.2
1/ 36-301	1,050	Aug. 24, 1956	do.	--	--	--	--	--	--	489	--	3,020	--	--	--	--	--	1,360	--	11,500	7.2	--

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

1/ U.S. Geological Survey Laboratory
2/ Trinity Testing Laboratories
3/ Curtis Laboratories
4/ Laboratory Unknown

EXPLANATION

Public supply well

Industrial well

Irrigation well

Domestic or livestock well

Oil or gas well

Unused or abandoned well

Solid circle indicates flowing well

Line above well number indicates chemical analysis given in Table 5

Location of Selected Water, Oil, and Gas Wells in Williamson County